TA-AV790ESD

SERVICE MANUAL

AEP Model E Model



SPECIFICATIONS

Amplifier section

AFP1 German F Mode

Items	Condition	Data
Continuous RMS power output	4 ohms, DIN 1kHz	Front: 80 W + 80 W Center: 80 W Rear: 40 W + 40 W
	4 ohms, DIN 1kHz	Front: 100 W + 100 W
	4 ohms, 20 Hz - 20 kHz	Front: 50 W + 50 W
Total harmonic distortion	4 ohms, at 10 W output	Front: 0.03 %

AEP2 Model

Items	Condition	Data
Continuous RMS power output	8 ohms, DIN 1kHz	Front: 70W + 70W Center: 70W Rear: 35W + 35W
	8 ohms, DIN 1kHz	Front: 80W + 80W
	8 ohms, 20 Hz - 20 kHz	Front: 45W + 45W
Total harmonic distortion	8 ohms, at 10W output	Front: 0.03 %

Note:

There are two type of AEP models which are depend on countries.

AEP2: Model for Scandinavian countries, Switzerland,

Spain and Portugal.

AEP1: Model for other European countries.

Input

	Input jack	Sensitivity	Impedance
	PHONO	2 mV	
Audio	TUNER, TAPE, DAT/ MD, VIDEO 1, 2, 3, 4, LD, TV	150 mV	50 kilohms
	CD	220 mV	15 kilohms
Video	VIDEO 1, 2, 3, 4, LD (phono jack)	1 Vp-p	75 ohms
	S VIDEO VIDEO 1, 2, LD	Luminance (Y) 1 Vp-p Chrominance (C) 0.286 Vp-p	75 ohms

Output

Ou	tput		
	Output jack	Sensitivity	Impedance
	TAPE, DAT/MD VIDEO 1, 2, 3	150 mV	470 ohms
Audio	HEADPHONES	3 mW (8 ohms)	Applied to low and high impedance headphones
	CENTER (MASTER VOLUME: center)	1.8 V	2 kilohms
	MONO (MASTER VOLUME: center)	1.8 V	2 kilohms
Video	VIDEO 1, 2, 3, MONITOR (phono jack)	1 Vp-p	75 ohms
Ň	S VIDEO VIDEO 1, 2, MONITOR	Luminance (Y) 1 Vp-p Chrominance (C) 0.286 Vp-p	75 ohms

- Continued on next page -

INTEGRATED AV AMPLIFIER SONY.



Manufactured under license from Dolby Laboratories Licensing Corporation.

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Digital signal processor section

Surround parameter 17-step adjustable ROOM WALL 17-step adjustable SEAT F/R and L/R 17-step adjustable EFFECT 21-step adjustable REV 17-step adjustable DELAY 15.0 ms - 30.0 ms, 0.1 ms step REAR + 10 - - 50 dB, 1 dB step CENTER + 10 - - 50 dB, 1 dB step CENTER EO 100~Hz, 330~Hz, 1~kHz, 3.3~kHz, $10~kHz \pm 6~dB$, 1~dB~stepBASS: 100 Hz, ±10 dB TREBLE: 10 kHz, ±10 dB Tone control General Power requirements AEP1, AEP2, German Model 220 - 230V AC, 50/60Hz E Model 120/220/240 V AC, adjustable with the voltage selector, 50/60 Hz 390 W Power consumption Switched, less than 100 W AC outlet Dimensions Approx. 430 x 135 x 360 mm Approx. 430 x 135 x 360 mm (w/h/d) (17 x 5 $\frac{3}{8}$ x 14 $\frac{1}{4}$ inches) Approx. 14.5 kg (21 lb 10 oz) Remote commander RM-P790 (1) Sony batteries SUM-3 (NS) (2) Mass Supplied accessories

Design and specifications are subject to change without notice.

Note

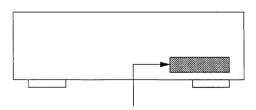
This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

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MODEL IDENTIFICATION

--- BACK PANEL ---



TA-AV790ESD:

4-966-126-2□ : AEP1 model 4-966-126-3□ : AEP2 model 4-966-126-4□ : German model 4-966-126-5□ : E model

Note:

There are two type of AEP models which are depend on countries.

AEP2: Model for Scandinavian countries, Switzerland, Spain and Portugal.

AEP1: Model for other European countries.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK A ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE **OPERATION. REPLACE THESE COMPONENTS WITH** SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1 GENERAL

This section is extracted from instruction manual.

and Controls

10 SOURCE DIRECT button and

indicator (40) Press this button to listen to the sound without sound effect. The settings of surround, center equalizer, BAS, TREBLE and BALANCE have no effect.

[1] AUDIO SELECT button and indicators (38, 42, 48, 52) Selects the audio program source.

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Press to combine a visual source and an Each time this button is pressed, the 12 MIX button and indicator (42) display changes as follows: audio source.

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(2)

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Selects the video program source. 13 VIDEO SELECT button and indicators (38, 42, 48, 50, 52)

Adjusts balance of the front speaker sound. Normally set to the center 14 BALANCE control (40)

15 BASS/TREBLE controls (40) Adjust the BASS and TREBLE sound. Normally, set to the center position.

| Course | Teacher | Teach

Accepts the stereo phone plug of headphones. The jack outputs the sound of front speakers only. To listen to the program source only with the headphones, set the SPEAKERS switch to OFF. 16 HEADPHONES jack

12 5

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The Speakers switch (38) Turn ON and OFF the front, center and

rear speakers.

When a digital component is assigned to the OPTICAL DIGITAL IN jack, the 18 DIGITAL 1, 2, 3 indicator (44) corresponding indicator lights.

19 Sampling frequency indicators Indicators the sampling frequency which corresponds to the digital input

20 MEMORY indicator (44) Lights when the ENTER button is pressed for storing the assignment of the OPTICAL DIGITAL jacks or storing the

[2] Character display (44, 74) Shows the selected mode, program source or a state of operation. index name of program source.

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dentifying the Parts

and Controls

Refer to the pages indicated in () for

details.

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Front Panel and Display A 1 POWER switch and standby

When the AC cord is plugged in, the indicator lights to show that the main unit is in standby mode. When the POWER switch is turned on, the indicator goes off.

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[2] SURROUND ON/OFF button (68) Turns on and off the surround mode.

③ SURROUND MODE button and indicators (56, 58, 68, 74)
Fress to change the surround mode. Each time this button is pressed, the surround mode changes as follows:
DOLBY SUR → THEATER! → THEATER?

OPERA STADIUM **→** ZZY

(6)

18

4 CENTER MODE button and

indicators (54, 56) in the DOLBA SUR, THEATER 1, THEATER 2 or LIVE mode, select the CENTER MODE according to the speaker placement.
Each time this button is pressed, the CENTER MODE changes as follows:



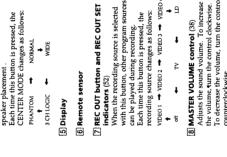
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with this button, other program sources 7 REC OUT button and REC OUT SET indicators (52) When the recording source is selected can be played during recording. Each time this button is pressed, the



9 VIDEO 4 INPUT jacks (20)

Use when connecting the video camera, etc.



To decrease the volume, turn the control

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Remote Commander

1 LEARN indicator

Lights when storing the signal of other remote.

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[2] Mode selector (78, 82, 84)
SONY STD: Controls cony equipments.
USER STD: Controls equipment whose remote control functions are stored.
LEARN: Stores functions of other remote commanders emitting infrared rays.

AMP power: Turns on/off this 3 POWER button

amplifier.
LDP power: Turns on/off the LD player.
VTR power: Turns on/off the VTR
selected by the VTR type (VTR 1/2/
3) selector. TV power: Turns on/off the TV.
MD power: Turns on/off the MD
recorder

0 0

▲ CD player/LD player control buttons
 DP/LDP: Selects CD player or LD player to be played. The combined CD/LD player and be controlled with this selector set to LDP:
 DISC SKIP: Disc skip (only for a CD player equipped with a multi-disc changer).
 ▼: Flay.
 ★ () ₱ F: Manual search.
 II: Pause.
 II: Pause.
 III: Pause.
 III: Pause.

dentifying the Parts

continued)

5] Tape deck/VCR control buttons
Before operating the tape deck/VCR
control buttons, set the DECK/VTR
selector and DECK type (DECK TAPE/
MD/DAT)/VTR type (VTR 1/2/3)

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want to operate.
When operating the tipe deck, MD
recorder or DAT deck.
DECK VITS selector — DECK
DECK (type VITR type selector —
DECK (tipe deck), MD (MD
recorder) or DAT (DAT deck).
When operating the VCR:
DECK (type VITR type selector —
VITR (198 deck), MTR (199 deck).
The DECK (type VITR type selector —
VITR (198 deck) or DAT (104 deck).
VITR (2.8 mm VCRs
VITR (2.8 mm VCRs
VITR (2.8 mm VCRs

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only for an auto reverse tape deck.)

REC: Recording. ■: Stop.

★★/▶►: Fast winding.

★★/▶►: Locates a desired selection.

★/▶-: Play. (The ▲ button is used

• For the recording with the VCR Press both ● REC and ▶ at the same

• For the recording with the tape deck Press both • REC and • or • at the same time. When the recording does

Following buttons can be used when the DECK/VTR selector is set to VTR. DUAL: Selects bilingual programs. TV/VTR: Selects the output signal from the antenna terminal on the VCR, either a TV signal or VCR programs.

CH (channel) +/-: Select channel on the VCR.

(6) DSP (Digital Signal Processor) CONTROL buttons (46, 56, 58, 68, 74, 76)

TEST TONE: Turns on / off the test tone which allows you to adjust the front, center and rear speakers. The test tone can be heard only in DOLBY SUR mode.

PARAMETER: Selects a parameter to be adjusted. CHARACTER: Used when assigning the name to the program source.
REAR/CENTER LEVEL: Selects the level adjusting mode between the

rear speakers or center speaker.

CENTER EQ. Used when adjusting the equalizer of the center speaker.

E. E. W. Dr. Cursor buttons

CLEAR

ENTER

(to be continued

and Controls

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(continued)

DIGITAL ASSIGN button (44) Used when assigning the DIGITAL INPUT jack to the program source.

B MIX button (42)

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Combines a visual source and audio source.

9 SOURCE DIRECT button (40) Press to listen to the sound without sound effect.

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Resets the remote commander to the 10 RESET button (84)

initial state.

Ti Function selectors
VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4,
LD, TV, DAT/MD, TAPE, CD, TUNER,
PHONO, DIGITAL: Select the program

12 PROGRAM CLEAR button (82) Clears the stored functions.

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II Tuner control buttons
BAND: Selects the frequency band.
PRESET +/→: Selects a higher or lower
preset number.

TV/VIDEO: Selects the input signal of the TV/-Selects the property of the TV.

CH + -- Select a preset channel.

VOL + /-- Adjust the TV volume.

15 SURROUND MODE buttons (56, 58,

68, 74)

mode.
DOLBY, THEATER 1, THEATER 2,
LIVE. HALL, OPERA, JAZZ.
STADIUM: Select the surround mode.
When a surround mode is selected,
the SURROUND ON/OFF button is ON/OFF: Turns on/off the surround

16 MUTING button (40) Mutes the sound.

automatically turned on.

Adjust the sound level of the speakers or headphones or the sound level at the both CENTER AUDIO OUT and MONO AUDIO OUT jacks. [1] MASTER VOL +/- (38)

00 CLEAR -



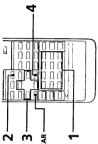












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Listening to/Watching Program Sources

Creating a Name for Program Source

This operation can be performed only with the remote.

You can create a name for program sources. For example, if you connected a second tape deck to the DAT/MD jacks, you will most likely want to display as "TAPE 2" (instead of "DAT/MD") when you use the second tape deck. The name you create appears on the display whenever you select that program source.

You can use up to 8 letters and symbols for each name.

1 Press a function button that you want to create a name for.

2 Press CHARACTER.

☑.

To change the position within the name, press ☒ or ☒. **3** Greate a name. To select a letter or symbol, press \square or

4 Press ENTER.
The MEMORY indicator lights and the name is stored in the memory.

If the power cord is unplugged
The name you created remains in the
memory for about two weeks.

To cancel the name you created 1 Press the function button whose name to

be canceled.

2 Press CHARACTER.

3 Press CLEAR.
The display shows the factory preset

Press ENTER.

You can use any of the following characters to create a function name. Usable letters and symbols

4





















2 Press CENTER MODE to select the PHANTOM, NORMAL, WIDE or 3 CH LOGIC mode according to the speaker placement. For details of the speaker placement and the CENTER MODE setting, refer to

3 Press TEST TONE on the remote to set to on. (The button functions only in DOLBY SUR mode.)
The test tone will be heard in the

LIVE

JAZZ

OPERA

DOLBY SUR THEATER 1 THEATER 2

page 54.

SURROUND OWOFF | SURROWND MODE | CENTER MODE |

Select this mode when you play back a Dolby surround program source without using a center speaker. The sound of the center channel is output from the front (L

following order:
In NORMAL or WIDE mode
Front left * Center * Front right * Rear
In PHANTOM mode

Front • Rear
In 3 CH LOGIC mode
Front left • Center • Front right

SURROUND ON/OFF SURROUND MODE CENTER-MODE

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Select this mode if you use a small center speaker(s). The bass sound of the center channel is output from the front speakers, as a small speaker cannot produce enough

NORMAL mode

and R) speakers.
a) Front speaker (L)
b) Front speaker (R)
c) Rear speaker (L)
d) Rear speaker (L)

1 Press SURROUND MODE until the DOLBY SUR, THEATER 1, THEATER 2 or LIVE indicator lights.

- for DOLBY SUR, THEATER 1,

THEATER 2 or LIVE mode

Adjusting Each Speaker Level

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of these four configurations. Once you make the adjustments, you do not have to adjust them again unless you change your

speaker system

comes from each speaker by selecting one

configurations (Phantom, 3 Ch Logic, Normal, Wide). To best fit your speaker system, you can change how the sound

Since all speakers are different, the unit offers you four types of speaker

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Each time you press the CENTER MODE button, the CENTER MODE is changed in the following order:

PHANTOM → NORMAL → 3 CH. LOGIC → WIDE →

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PHANTOM mode

To enjoy the surround sound, adjust the level of each speaker and then try to obtain "live" atmosphere using the digital signal

Before performing the following adjustments, you have to complete the speaker settings (page 54).

processor (page 60).

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Placement of Speakers and Selecting the Center Mode







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a) Front speaker (L)
b) Center speaker(s)
c) Front speaker (R)
d) Rear speaker (L)
e) Rear speaker (K)



REAR/CENTER 4

TEST ONE

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Select this mode if you use a medium to big size center speaker.

WIDE mode 💽

size central speaker (L)
b) Center speaker (R)
c) Front speaker (R)
d) Rear speaker (L)
e) Rear speaker (R)

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3 CH (channel) LOGIC mode D Select this mode when you play back a Dobly surround program source only with the front and center speakers. The sound of the rear channel is output from the front (L and R) speakers.

a) Front speaker (L)
b) Center speaker(S)
c) Front speaker (R)





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button so that "REAR" appears and press 🖾 or 🗹 button to adjust the level.

speakers
Press the REAR/CENTER LEVEL

To adjust the level of rear

Press the REAR/CENTER LEVEL button so that "CENTER" appears and press \(\omega\$ or \(\omega\$ button to adjust the level. \)

To adjust the level of center

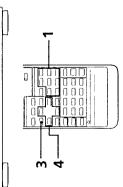
position. speaker

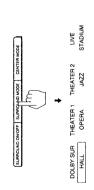
PHANTOM NORMAL WIDE 3 CH LOGIC

4 Adjust the volume level so that sound from each speaker will be the same level at your listening

The level of center and rear speakers can be adjusted from +10 dB to -50 dB, and the adjusted level is displayed. When adjusting MASTER VOLUME, all speakers are adjusted simultaneously.

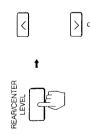
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continued)

Notes

- The speaker level adjustment with the test tone function can be performed only when the DOLBY SUR mode is selected.
 When the PHANTOM mode is selected,

no sound is heard from the center

speaker.

• When the 3 CH LOGIC is selected, no sound is heard from the rear speakers.

• When a component (TV, power amplifier, etc.) to the ALDIO CENTER OUT jack, adjust with the volume control on the connected component as well.

- for HALL, OPERA, JAZZ or STADIUM mode

For HALL, OPERA, JAZZ or STADIUM mode, adjust the front and rear speakers leyel. (In these modes, the center speaker is not used.) You can adjust the level for each surround mode.

1 Press SURROUND MODE to select the surround mode you want to adjust and play a program source.

2. Turn BALANCE to adjust the volume level of the left and right front speakers will be the same level.

3 Adjust the level of rear speakers. Press the REAR/CENTER LEVEL button so that "REAR" appears and press © or © button to adjust the level. The level of rear speakers can be adjusted from +10 dB to -50 dB, and the adjusted level is displayed. You can refer to the adjusted level for Dobby surround with the test fone

- Notes
- signals is played back even though is has the "DDIcerramone" mark, sound of the rear channel may be heard at very low • Some commercially available software may have Dolby surround processed sound tracks even though it does not carry the "Disarraness" mark.
 • When the software with the less rear
 - level.

 In PHANTOM mode, sound from the center speaker cannot be heard

This amplifier uses digital signal processor to reproduce the surround sound effects. It allows you to obtain the sound field to best fit your listening environment.

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Understanding the Digital Signal Processor

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The digital signal processor electronically reproduces the acoustics of various listening environments. In addition to this function, you can use the center equalizer to finely adjust the tone.

Listening to the Sound with Preset Surround Mode

circuit of the Dolby Pro Logic decoder, you can experience the surround effect such as in a movie theater. surround modes to simulate the sound you would experience in various listening environment. Since the DOLBY SUR, THEATER 2 or LIVE surround uses the enhanced directivity surround modes. You can use these This amplifier comes with 8 preset

For each surround mode, you can adjust the sound parameters as desired. These are discussed in more detail on page 66 to 74.

LIVE

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DOLBY SUR THEATER 1 THEATER 2

OPERA

HALL

according to the program source. 1 Select the surround mode

2 Play the program source.

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Understanding the surround sound parameters

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This amplifier uses digital signal processing to reproduce the sound effects of various listening environments, such as a concert hall. Three sound elements contribute to this effect, direct sound, early reflection and reverberation (Fig. M. Types of sound).

b) Reverberation

b) Reverberation

c) Direct sound

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The built-in digital signal processor creates various listening environments reproducing early reflected sound and reverberated sound. (Fig B: Transition of

sound) a) Early reflections

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b) Reverberation

c) Direct sound d) Level

and each mode has various adjustable parameters, you can adjust them according to the type of your listening room. Since this amplifier has 8 surround modes e) Time

ê 1

Each surround mode has the proper parameter in addition to the adjustable parameters. Thus, sound effect of each surround mode will not be the same even if all adjustable parameters of the surround modes are set to the same levels.

Characteristics of each surround

DOLBY SUR (surround)

surround system on which the "Ollearnesseg" or "DOLBY STEREO" mark is labeled. You can hear dynamic sound and natural voice just like listening to it in a movie theater or a concert hall. This mode is for reproducing the movie or music program source recorded with Dolby

THEATER 1

Applies reflected sound in a movie theater to the sound output through the enhanced directivity circuit of the Dolby Pro Logic

Suitable for movie programs recorded with Dolby surround system. THEATER 2

Reproduces the acoustics of a small-size movie theater using the sound output through the enhanced directivity circuit of the Dolby Pro Logic decoder.

Applies reflected sound in a concert hall to the sound output through the enhanced directivity circuit of the Dolby Pro Logic Suitable for music programs recorded with Dolby surround system. LIVE

You can hear the naturally acoustic sound having a reverberation effect that is produced in a large-size concert hall.

Reproduces the acoustics of an opera house keeping the clearness of vocals. Suitable for solo concert or medium-size orchestral music. OPERA

JAZZ

Gives a "live" atmosphere similar to a jazz club and reproduces crisp sound.

STADIUM

Reproduces the acoustics of an open-air stadium having a long early reflected

Suitable for a live concert of pops.

Adjusting the Digital Surround

For each surround mode, you can adjust the sound parameters as described in the following chart.

YES: You can adjust this parameter. —: You cannot adjust this parameter.

SURROUND MODE PARAMETER	DOLBY	THEATER 1
ROOM	-	YES
WALL	ı	YES
SEAT	1	YES
EFFECT	1	YES
REV.	-	YES
DELAY	YES	ı

SURROUND MODE PARAMETER	THEA. TER 2	LIVE	HALL
ROOM	YES	YES	YES
WALL	YES	YES	YES
SEAT	YES	YES	YES
EFFECT	YES	YES	YES
REV.	YES	YES	YES
DELAY	1	-	,

SURROUND	OPERA	JAZZ	STA- DIUM
ROOM	YES	YES	YES
WALL	YES	YES	YES
SEAT	YES	YES	YES
EFFECT	YES	YES	YES
REV.	YES	YES	YES
DELAY	-	1	-

In addition to these adjustments, you can adjust the center equalizer (page 76) and the level of center and rear speakers (pages 56-58).

SURROUND MODE ON/OFF SURROUND MODE

This operation can be performed only with the remote. Before adjusting parameters, play a program source with the surround mode suitable for the program source. You can adjust parameters listening to the sound with surround effect. In addition, you can compare the adjusted sound with the sound having no surround effect by switching the SURROUND ON/OFF button.

1 Press PARAMETER repeatedly until the desired parameter appears on the display.

PARAMETER

2 Press ☑ or ፭ to adjust the parameter.

Note
In 3 CH LOGIC mode, you cannot adjust
the parameter.

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Characteristics of each parameter

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surface to another than in a smaller room.
The ROOM parameter controls the spacing of early reflections to simulate the room size. The 5 indicator on the display signifies a small room, the L indicator signifies a large room, and the middle point designates a standard room size.

1) Small room Room Size Simulation (ROOM) E Before sound reaches our ears, it is reflected many times between the left and right walls, ceiling, and floor. In a large room, sound takes more time to bounce from one

2) Large room

a) Level b) Early reflections

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elements are reduced. A hard wall is highly reflective and does not significantly Wall Material Simulation (WALL) When sound is reflected off a wall made of soft material, such as wood or a wall covered with a curtain, the high frequency affect the frequency response of the reflected sound.

The WALL parameter controls the level of Making frequencies to similarise the wall material. The Sindicator on the display signifies a soft wall. The Hindicator signifies a hard wall. The middle point designates a standard wall made of wood.

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1)Soft wall

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2)Hard wall a) Level

b) Early reflections c) Reverberation

d) Frequency

e) Low f) High g) Early reflections and reverberation

If you sit in the front of a room, you hear more direct sound from the front speakers. As you move to the rear, the reflected sound from the front speakers increases. Similarly, the reflected sound changes if you move from left to right, and vice versa. The F/R and L/R parameters control the Seat Position Simulation (SEAT) 🔼 balance of the direct and reflected sound and other elements of sound to simulate

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your listening position. When adjusting the F/R parameter, the F indicator on the display signifies the front position of the room. The R indicator signifies the rear position, the middle point signifies the rear position, the middle point position. When adjusting the L/R
parameter, the Lindicator signifies the left
position of the room. The R indicator
signifies the right position. The middle
point of the indicator designates the center of the indicator designates the center

I)STADIUM mode 2) Other modes

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Effect Level (EFFECT) B

Effect level is the combination of the level of early reflections and reverberation. The L indicator on the display signifies the lowest level and the H indicator signifies the highest level. The adjustable level is divided into 21 segments. As you select higher level, the room becomes more "live." As you select lower level, the room

becomes more "dead." 1) Low effect level 2) High effect level

a) Level
b) Early reflections
c) Reverberation
d) Time

display signifies the shortest reverberation time, the L indicator signifies the longest This parameter adjusts the length of the reverberation. The S indicator on the Reverberation Time (REV.)

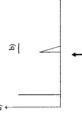
reverberation time.

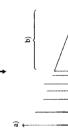
1) Stortest reverberation time
2) Longest reverberation time
a) Level
b) Reverberation
c) Time

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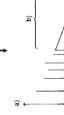






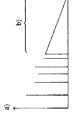








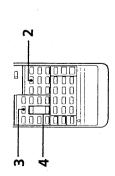
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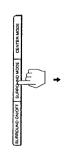


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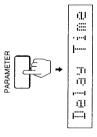
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Adjusting the Delay Time of the Rear Speakers

Other manufacture's remote

- Only for Dolby surround mode

Sound from the front and rear speakers is not output simultaneously. By adjusting the time difference between front and rear speakers (elaty time), you can make the surround sound best fit your listening environment. You can make the delay time longer or shorter within the range of 15 ms to 30 ms.

1 Play a program source.

- 2 Press SURROUND MODE repeatedly until to select DOLBY SUR.
- 3 Press PARAMETER repeatedly until "Delay Time" appears on the display.

4 Press 🛭 or 🖾 to adjust the level.

In 3 CH LOGIC mode, you cannot adjust the level and delay time of rear speakers. Only for program sources recorded with Dolby surround, this adjustment has effect.

LIVE

JAZZ

OPERA

M

DOLBY SUR THEATER 1 THEATER 2

2

9

The remote RM-P790 learns various runctions of other remote commanders emitting infrared rays and allows you to control most of audio and video component from a distance.

Programming Signals of Other Audio/Video Component

there is an obstacle between the unit and the head of the remote, the unit may not be When you manipulate a switch or button on the commander, be sure to point the head of the remote toward the remote control sensor on the front of this unit. If controlled remotely.

Amplifier's remote

Approx. 5 cm (2 inches)

The two remote commanders must:

face straight each other.
 be placed at a distance of approx. 5 cm (2 inches).
 not be moved during programming.

LEARN

SONY

USER STD

- operation.
- Set the mode selector to LEARN.
- 2 Hold down the button, on the remote commander supplied with this amplifier, which shall learn the remote control signal.

 The LEARN indicator lights up.

LEARN JOH

Amplifier's remote

- 3 Hold down the button of other manufacturer's remote whose signal is to be learned.
- 4 Remove your fingers from the buttons after the LEARN indicator goes off.
 - 5 Repeat operation for each button to be programmed.

Other manufacture's remote

M

6 After programming, set the mode selector to USER STD or SONY STD.

LEARN USER STD SONY

9

Codes on the Remote

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After programming
Be sure to test if the equipment really
works with the programmed signals.

Number of signals that the

commander can learn
It depends on the format of the signal. If
you program signals of Sony component,
approximately 60 signals can be programmed.

Programmable area

(a |

0

а П

a) In this area, you can store signals in a button with each setting of the CDP/LDP selector.

b) In this area, you can store signals in a button with each settings of the DECK/VTR selector and DECK type/VTR type selector.
(When the DECK/VTR selector is set to DECK, you cannot program the DUAL, TV/VTR and CH +/- buttons.)

If the LEARN indicator flashes

The memory capacity is full as other strong signals have been stored. In this case, clear all stored signals following the procedure described in "To clear all programmed signals" and program again from the

beginning.
When programming, avoid the following conditions not to store undesirable signals.
Exposing the remotes to intense light such as of inverter fluorescent lamp.
Receiving infrared signals of other appliance's remote

- Placing the remotes too far apart from each other.

Notes on programming

Remote-control signals of component of manufactures other than 5 cay abe programmed only when they are compatible with the infrared wireless remote control system. Since the programmable remote can "learn" only the signals output from another remote, it cannot control component that does not use a remote commander.

- Do not attempt to use the programmable remote with an air conditioner or other household appliance.
 Note that there are some special remotecture is control signals that cannot be programmed.

Manufacturer's Operating Codes on the Remote oring Other

Programming a new signal onto

a previously programmed button Follow the programming procedures. The previously programmed signal is cleared and replaced by the new signal.

LEARN indicator

To clear all programmed signals

PROGRAM CLEAR

Mode selector —

1 Set the mode selector to LEARN.
2 Press and hold any button of the programmable area until the LEARN indicator lights up.
3 Press PROGRAM CLEAR with a ballpoint pen, etc. until the LEARN indicator flashes and goes off.

0

It is not possible to clear the programmed content of just one button.

To program a signal onto the • REC button

Press the following buttons on other

or ① at apper deck's remote: ②, or ① and ②, or ② and ③ deck's remote: ③, or ③ and ③ deck's remote: ③ or ③ and ③ deck's remote: ③ on a VCR's remote: ④ and ③ deck's remote: ④ and ④ deck's remote: ④ and Ø deck's remote: Ø d

SECTION 2 TEST MODE

The test mode is provided in the TA-AV790ESD and FL indicator can be checked. Please check FL indicator if its indication is suspicious.

· How to operate the test mode

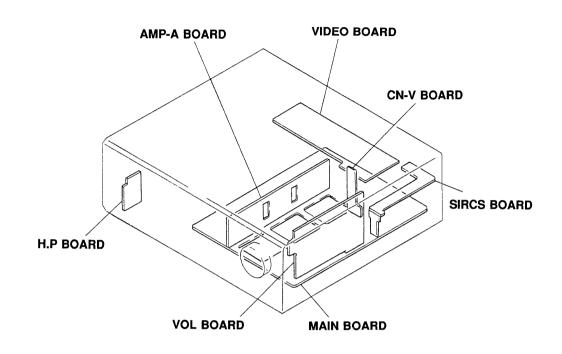
On the power off, holding to press VIDEO SELECT, MIX and AUDIO SELECT buttons at the triple same time, and turn the POWER switch on, so that FL indicator is lit in full. On the test mode, after VIDEO SELECT button is pressed succesively, the indication is changed one after another. On the test mode, after MIX button is pressed, REC SD PRO SM SOF is indicated. Then its fit button is pressed, the indication goes out.

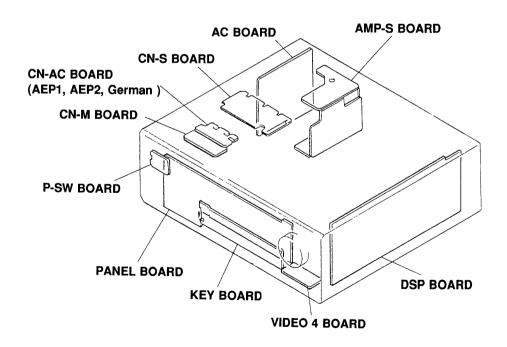
· How to escape from the test mode

Turn the power switch off and the test mode will release.

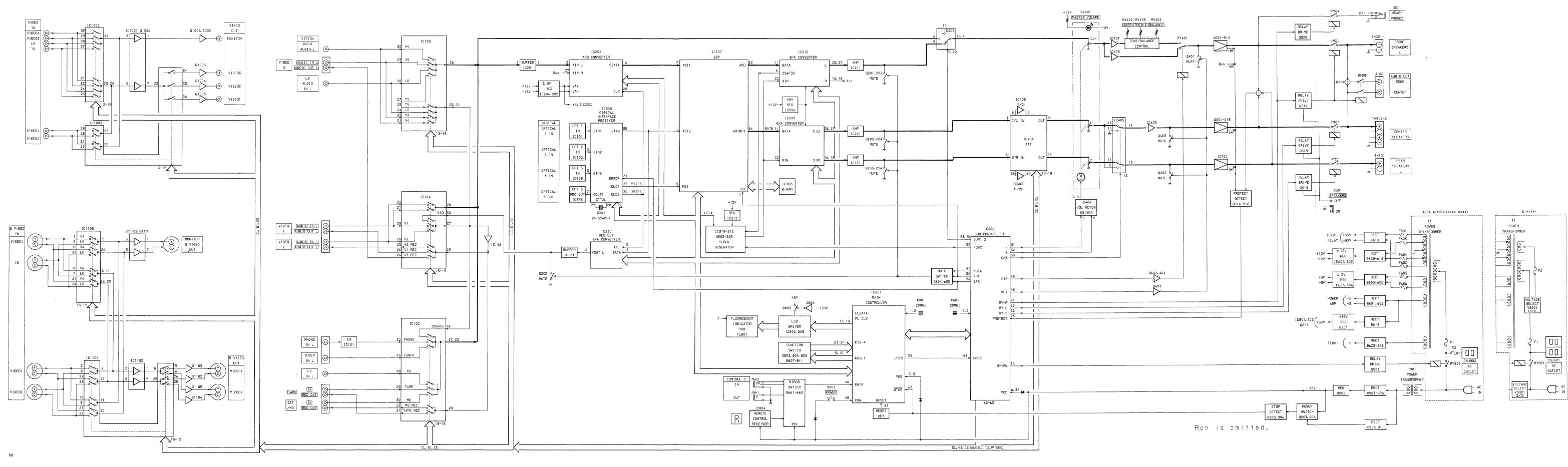
SECTION 3 DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION

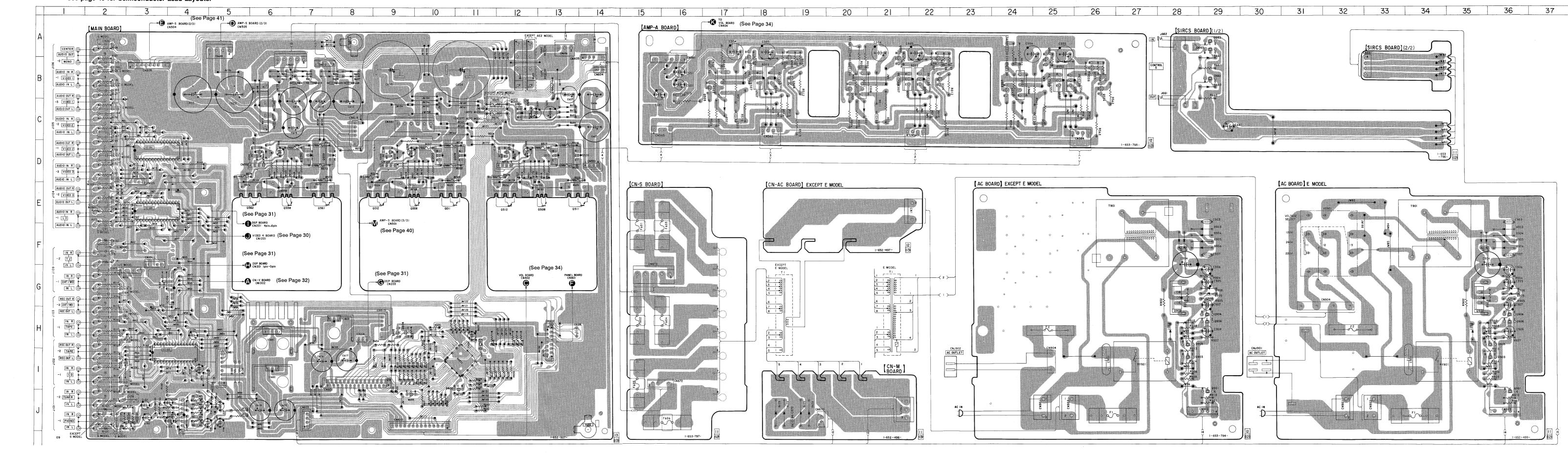




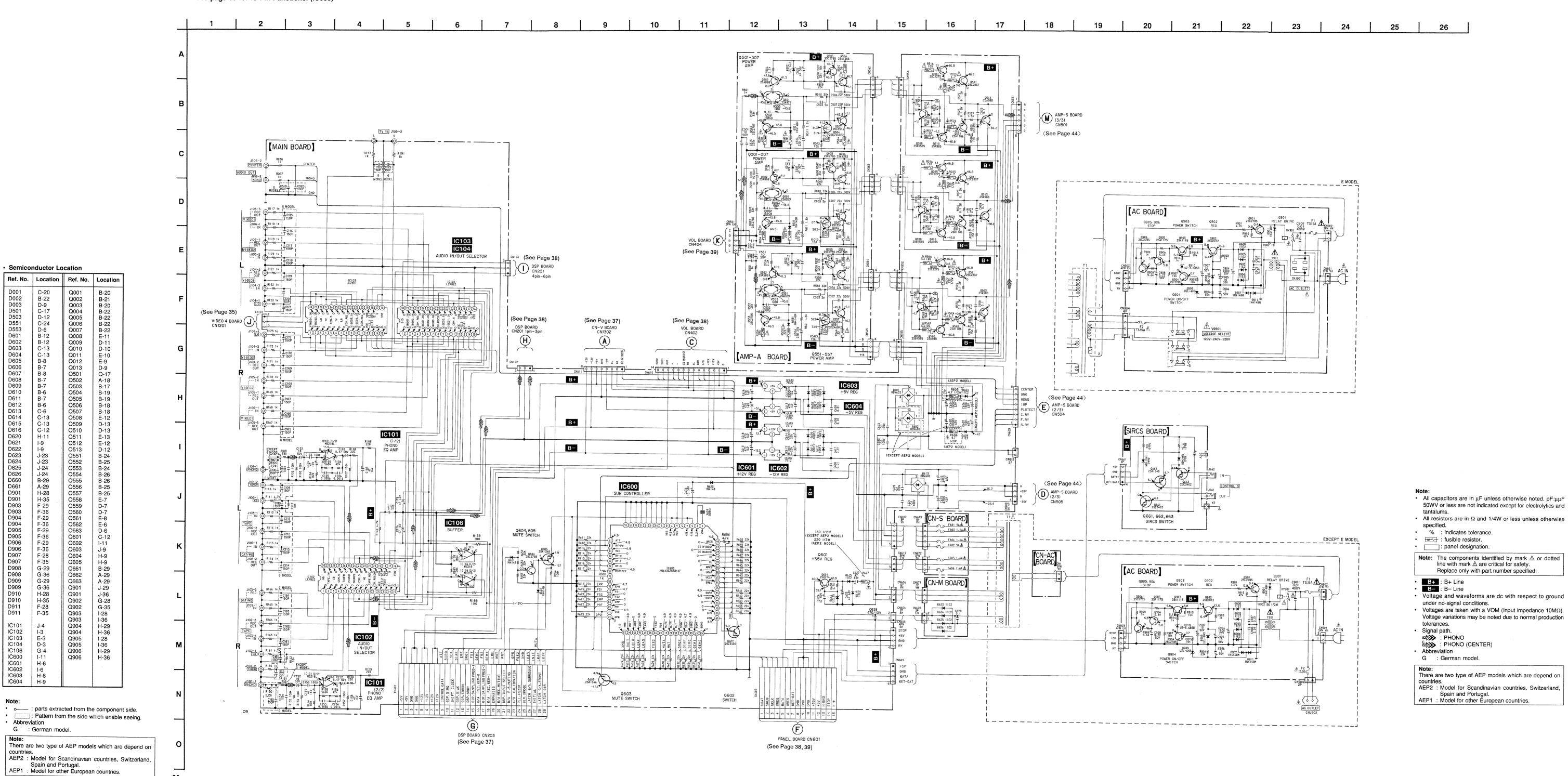
3-2. BLOCK DIAGRAM



See page 49 for Semiconductor Lead Layouts.



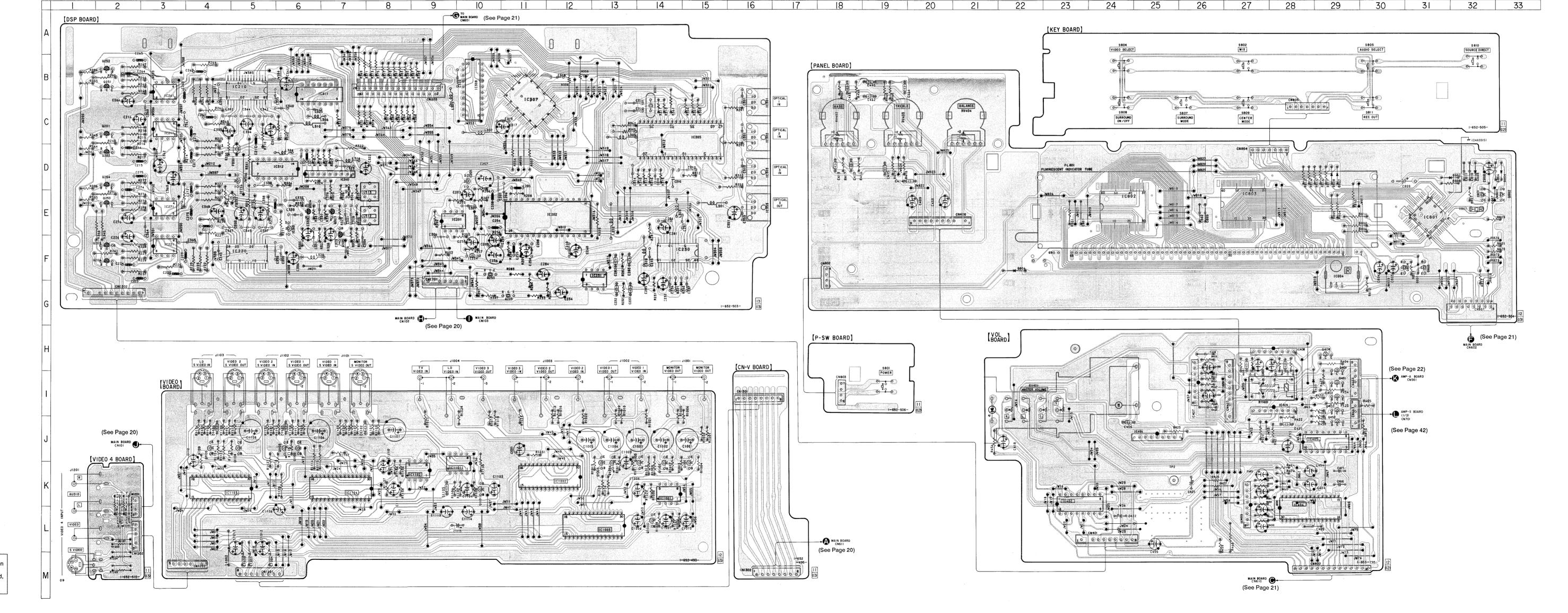
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3-5. PRINTED WIRING BOARDS — VIDEO SECTION — • See page 14 for Circuit Boards Location. • See page 49 for Semiconductor Lead Layouts.

• See page 49 for Semiconductor Lead Layou

Semiconductor Lo	ocation	
ef. No. Location	Ref. No.	Location
	II.	E-24 E-27 F-29 K-14 K-12 L-13 J-10 K-9 K-4 K-7 C-2 F-2 G-11 B-2 E-2 E-2 D-2 B-2 E-7 E-6 F-7 I-29 I-29 I-29 I-29 I-29 I-29 I-29 I-29



Note:

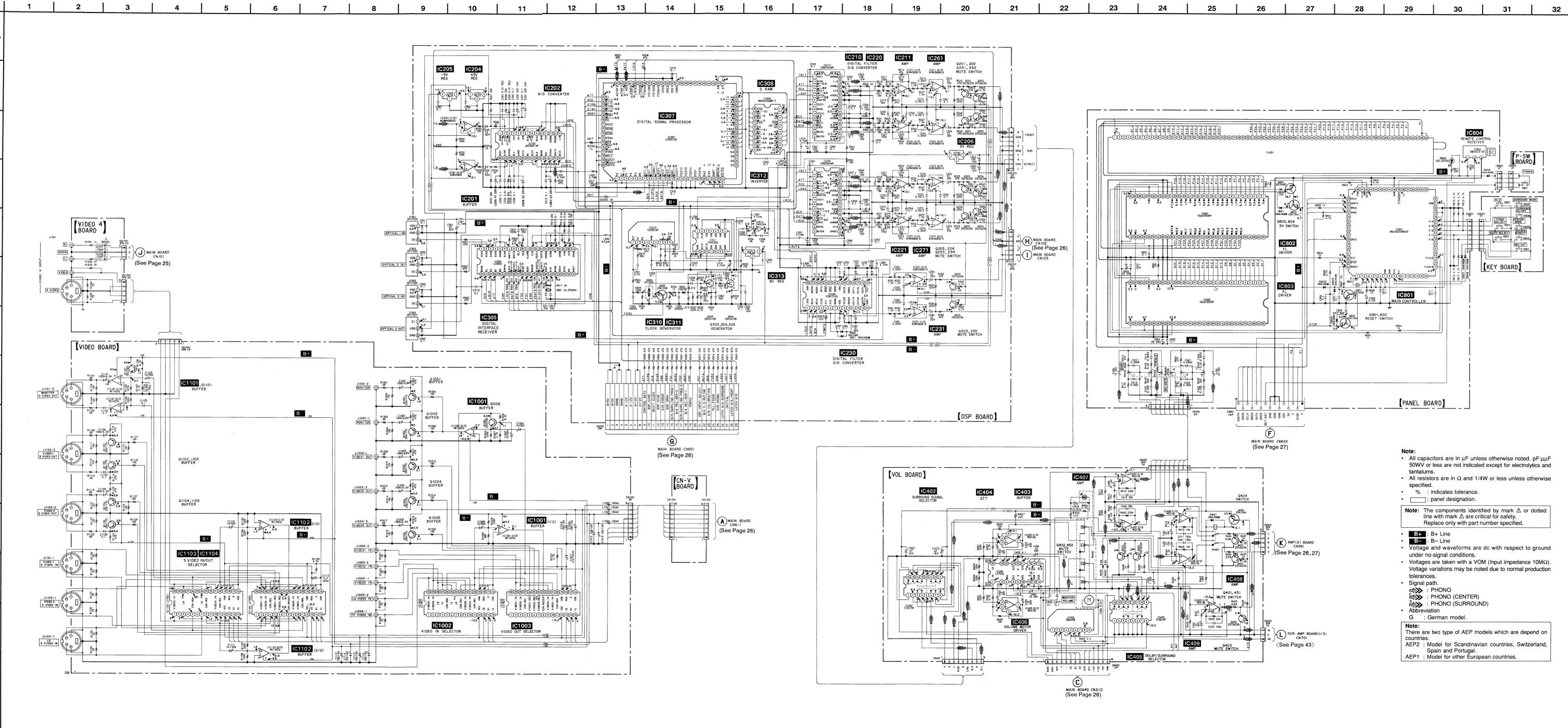
- o : parts extracted from the component side.
 : Pattern from the side which enable seeing.
- Abbreviation

G : German model.

Note:
There are two type of AEP models which are depend on countries.
AEP2: Model for Scandinavian countries, Switzerland,

AEP2 : Model for Scandinavian countries, Switzerlan Spain and Portugal.

AEP1 : Model for other European countries.



 Semiconductor Location

3-7. PRINTED WIRING BOARD — AMP-S SECTION — See page 14 for Circuit Boards Location. See page 49 for Semiconductor Lead Layouts.

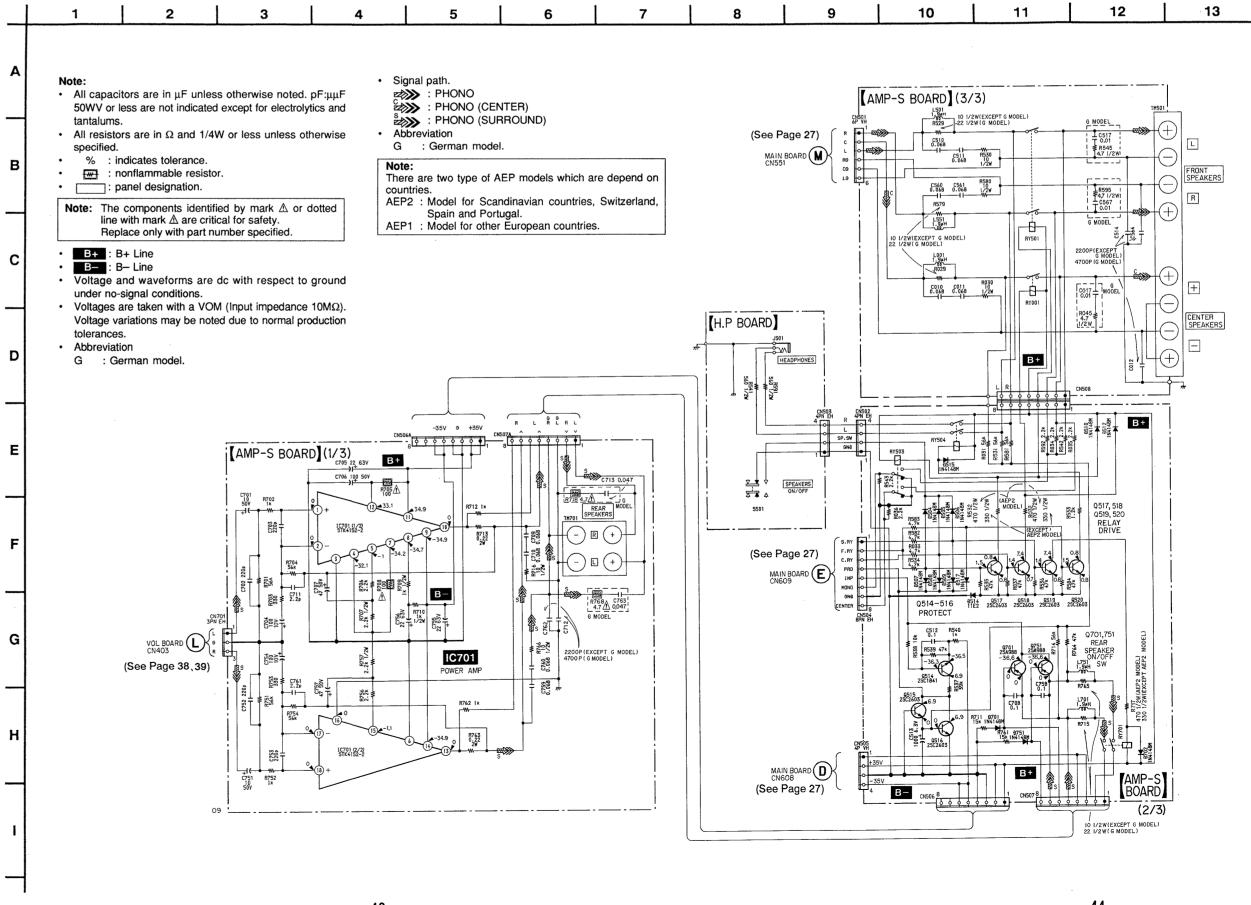
— 40 —

Ref. No. Location D504 D505 D506 D507 D508 D509 D510 D512 D514 D515 D517 D701 D702 D751 D-7 E-7 F-7 D-7 E-6 E-6 G-7 F-6 F-7 D-9 D-8 [AMP-S] BOARD](1/3) [AMP-S BOARD] (3/3) [AMP-S BOARD] (2/3) IC701 E-12 Q514 F-8 Q515 G-8 Q516 G-8 Q517 E-7 Q518 E-7 Q519 G-7 Q520 F-7 Q701 D-9 Q751 D-10 (See Page 20) MAIN BOARD CN609 · o : parts extracted from the component side. : Pattern from the side which enable seeing. G : German model. There are two type of AEP models which are depend on countries. AEP2 : Model for Scandinavian countries, Switzerland, Spain and Portugal. AEP1: Model for other European countries. VOL BOARD (See Page 34) 6 455 B [H.P BOARD] J501 HEADPHONES 0 W MAIN BOARD CN551 (See Page 20) (See Page 21)

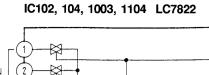
— 41 —

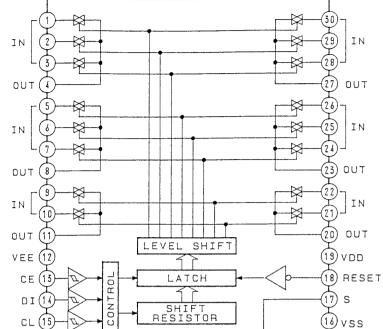
3-8. SCHEMATIC DIAGRAM — AMP-S SECTION —

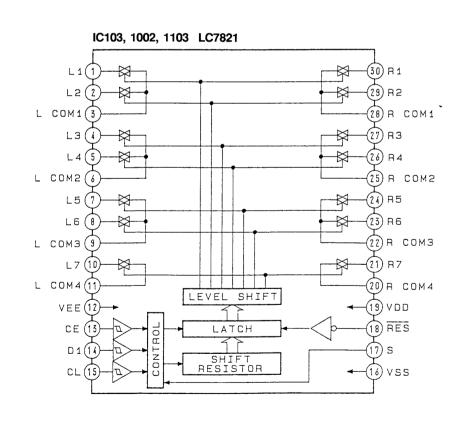
— 42 —

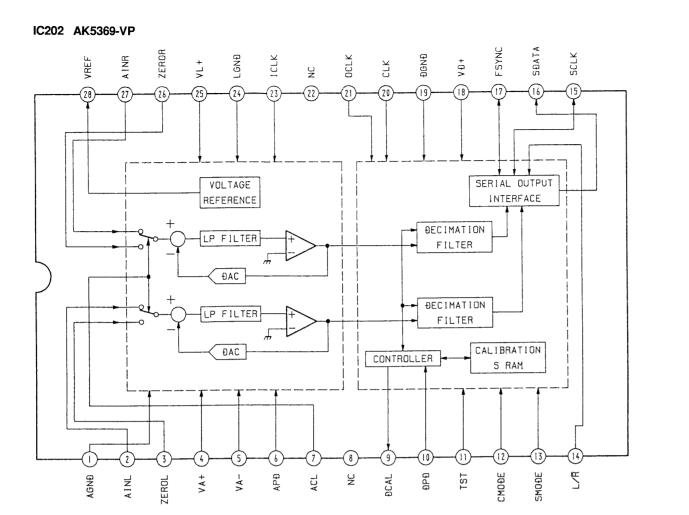


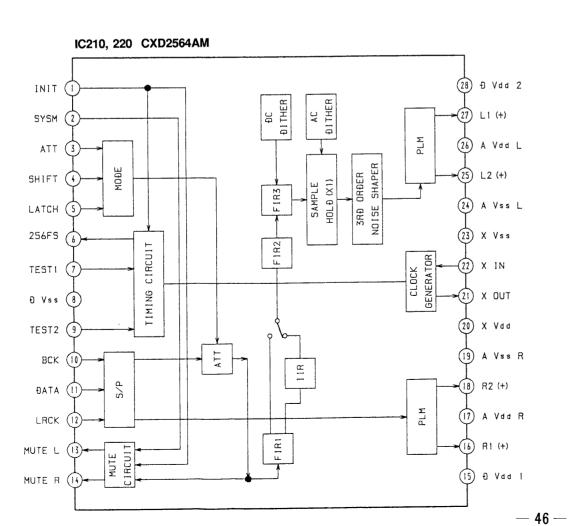


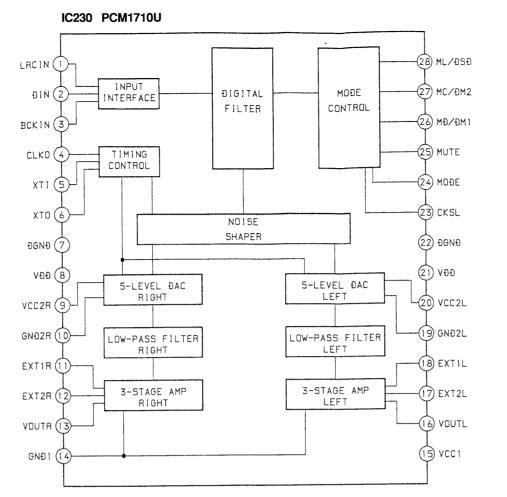


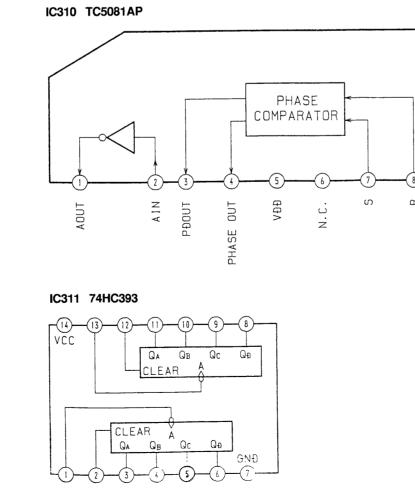


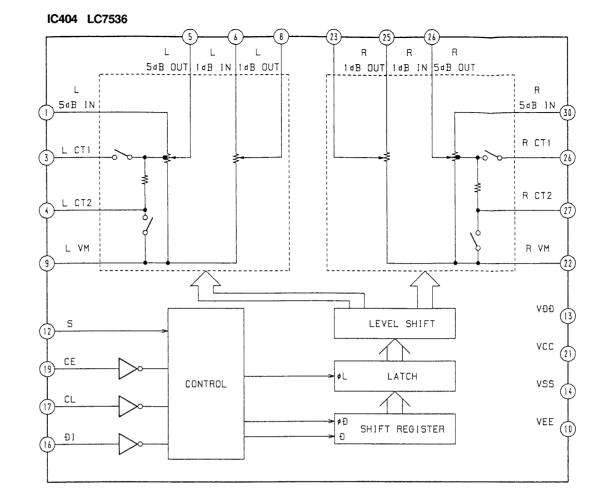


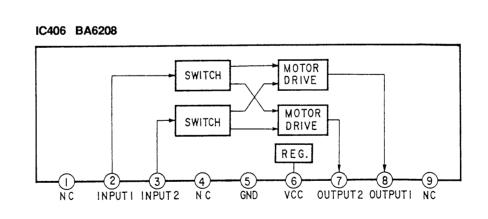


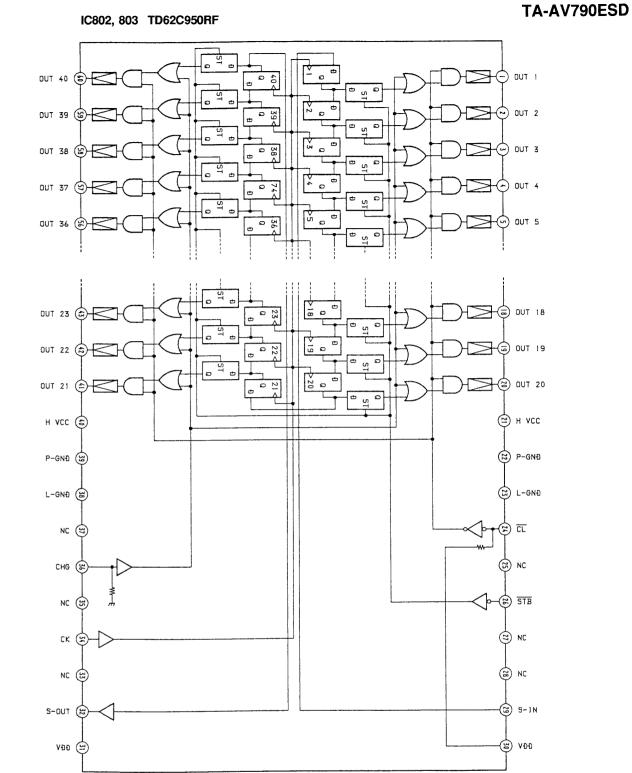






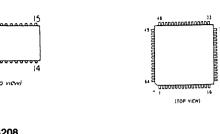


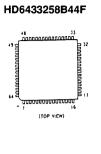


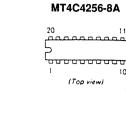


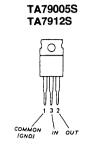
3-10. SEMICONDUCTOR LEAD LAYOUTS

AK5369VP (Top view) **BA6208** TC5081AP







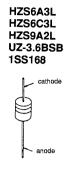


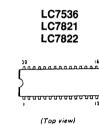




2SC3623A-LK 2SC403SP-51

LETTER SIDE

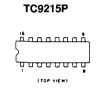






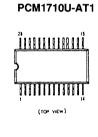
NJM78L05A NJM78L08A

M5218AL

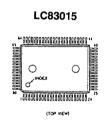


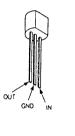




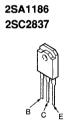


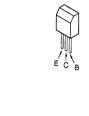
CXD2564AM

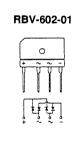


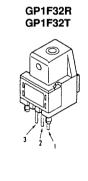




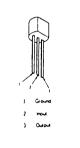




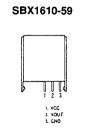








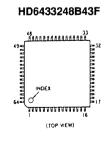
NJM79L05A

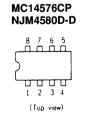


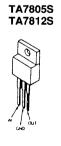




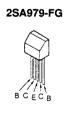


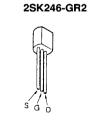


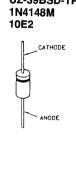


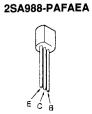


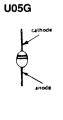
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3-11. IC PIN FUNCTIONS

• IC202 2-channels A/D Converter (AK5369VP)

Pin No.	Pin Name	I/O	Function	
1	AGND	_	Analog part. Analog ground terminal.	
2	AINL	I	L-ch analog input terminal.	
3	ZEROL	I	L-ch zero level input terminal, connected to AGND.	
4	VA+	_	Analog part. Analog plus power supply terminal, connected to A +5V.	
5	VA-	_	Analog part. Analog minus power supply terminal, connected to A -5V.	
6	APD	I	Analog part. Power down terminal, the power down mode is "H".	
7	ACAL	I	Analog calibration terminal. Normally, connected to DCAL terminal. Input terminal of external signal is trans ferred due to this terminal level. "H": zero level input terminal (ZEROL, ZEROR), "L": analog input terminal (AINL, AINR)	
8	NC	_	Out of use. (open)	
9	DCAL	0	Digital calibration terminal. Offset calibration exe cuting is shown. Normally, connected to ACAL terminal. The potential rises up momentarily after power down signal is input to DPD terminal. Then, it is held "L" after a period of 4096LR (about 85 ms at fs=48 kHz) from DPD terminal rising down, this shows to finish calibration.	
10	DPD	I	Digital part. When power down terminal is "H", this terminal is power down mode.	
11	TST	I	Test terminal, connected to DGND.	
12	CMODE	I	Master clock choosing terminal, connected to DGND. "L": CLK=256fs (12.288 MHz @fs=48 kHz), "H": CLK=384fs (18.432 MHz @fs=48 kHz)	
13	SMODE	I	Interface lock terminal, connected to DGND. Each clock terminal input/output of L/XR, SCLK, FSYNC are set. "L": slave mode (each terminal is all input), "H": master mode (each terminal is all output)	
14	L/R	0	Input channel choosing terminal. fs clock is output. SDATA, after 1 SCLK from L/\overline{R} edge, is output. When the power supply is down (DPD="H"), the potential is "H". (master mode)	
15	SCLK	0	Serial data clock terminal. At this terminal rising down, 1 bit of output data is outputed. 64fs clock signal is output. When the power supply is down (DPD="H"), the poten tial is "L". (master mode)	
16	SDATA	0	Serial data output terminal. The data is output 18 bit from MSB at 2's complement, and it is output "L" for more than 19 pieces of SCLK input. When the power supply is down (DPD="H"), the potential is "L". Frame synchronized clock terminal, out of use. (open) Digital part. Power supply terminal, connected to D +5V.	
17	FSYNC	0	Frame synchronized clock terminal, out of use. (open)	
18	VD+	_	Digital part. Power supply terminal, connected to D +5V.	
19	DGND	_	Digital part. Ground terminal.	
20	CLK	I	Master clock input terminal, CMODE="H": 384fs, CMODE="L": 256fs.	
21	OCLK	0	128fs clock output terminal. When power supply is down (DPD="H"), this terminal is "L".	
22	NC	_	Out of use. (open)	
23	ICLK	I	128fs input terminal, this terminal is clock of analog part. Connected to OCLK terminal.	
24	LGND	_	Analog part, logic ground terminal.	
25	VL+	_	Analog part. Logic power supply terminal, connected to A +5V.	
26	ZEROR	I	R-ch zero level input terminal, connected to AGND. Normally, R-ch offset is calibrated on this terminal input voltage is zero level.	
27	AINR	I	R-ch analog input terminal.	
28	VREF	0	Standard voltage output terminal, $-3.68V$. Input signal full scale depends on this voltage. When VREF= $-3.68V$, it is FS= \pm 3.68V.	

• IC305 Digital Audio Interface (LC8902)

Pin No.	Pin Name	I/O	Function
1	DIN1	I	
2	DIN2	I	Data in and with analising a surround and a TTI
3	DIN3	I	Data input with amplifier, correspondence to TTL.
4	DIN4	I	
5	DGND	_	GND (ground)
6	DIN5	I	Data input without amplifier.
7	DOUT1	0	Data output, correspondence to CMOS.
8	DOUT2	0	Data output, correspondence to Civios.
9	RC1	I	RC clock input.
10	RC2	0	RC clock output.
11	CLKMD	I	Output clock switching for CLK OUT2. (512fs: H, 384fs: L)
12	CLK	I	Switching for clock mode. (512fs: H, 384fs: L)
13	TEST1	I	Test mode input, normally "L".
14	TEST2	I	Test mode input, normally L.
15	XMODE	I	Reset signal input for graphic controller (IC600), normally "L".
16	AVDD	-	Analog power supply terminal. (A +5V)
17	R	I	VCO oscillation band adjustment input.
18	AGND	-	GND
19	VIN	I	Setting input for VCO self-running oscillator.
20	VCO	0	Output for LPF on PLL.
21	DGND	_	GND
22	SBSY	0	Sub-code interface block sync signal output. (out of use)
23	PW	0	Sub-code interface data output. (out of use)
24	SFSY	0	Sub-code interface frame sync signal output. (out of use)
25	SBCK	I	Sub-code interface bit clock input. (out of use)
26	DVdd	_	Digital power supply terminal. (D +5V)
27	XIN	I	Crystal oscillator input. (24.576 MHz)
28	XOUT	0	Crystal oscillator output. (24.576 MHz)
29	CLKOUTI	0	VCO, clock signal output of crystal oscillator.
30	CLKOUT2	0	Clock signal output of 256fs and 128fs.
31	ERROR	0	error muting signal output.
32	SUB1	0	Sampling frequency output
33	SUB2	0	Sampling frequency output.
34	BCLK	0	Bit clock signal output.
35	DATAOUT	0	Audio data output.
36	LRCK	0	L and R clock signal output.
37	ЕМРНА	0	Emphasis signal output. (ON: H. OFF, analog mode: L)
38	DO	0	Microcomputer interface output. (out of use)
39	DI	I	Microcomputer interface input.
40	CE	I	Microcomputer interface tip enable input.
41	CL	I	Microcomputer interface clock input.
42	DVDD	-	Digital power supply terminal. (D +5V)

• IC307 Digital Signal Processor (LC83015E)

Pin No.	Pin Name	I/O	Function
1 to 6	P0 to P4	I/O	General input/output port, a pull up resister is installed.
7	ASI1	I	Audio data serial input 1.
8	BCK1	I	Bit clock input, for ASI1 input. (64fs or 32fs are applied.)
9	FS384I	I	384fs or 512fs input.
10	LRCK1	I	L/R channel distinction signal input. (H: L-ch, L: R-ch.)
11	ASI2	I	Audio data serial input 2.
12	BCK2	I	Bit clock input, for ASI2 input. (64fs or 32fs are applied.)
13	VDD1	_	Power supply terminal +5V.
14 to 17	TEST1 to 4	I	Test input, connect to GND (ground).
18	Vss1	_	GND
19	TEST5	0	Test output, to be not connected.
20	RAS	0	When accessing DRAM (IC308), RAS signal output.
21	CAS	0	When accessing DRAM (IC308), CAS signal output.
22	DWART	0	When accessing memory (IC308), data write signal out put.
23	DREAD	0	When accessing memory (IC308), data read signal output.
24	CE/CS	0	Tip enable signal output to SRAM and Para-SRAM. (out of use)
25 to 28	D7 to D4	I/O	Data input/output with memory. (out of use)
29 to 32	D3 to D0	I/O	Data input/output with memory (IC308).
33	Vss2	_	GND
34 to 42	A0 to A8	0	Address output to memory (IC308).
43 to 50	A9 to A16	0	Address output to memory. (out of use)
51	VDD2	_	Power supply terminal +5V.
52	OSC1	I	Input for crystal oscillator. (out of use, connected to GND.)
53	OSC2	0	Output for crystal oscillator. (out of use)
54	VSS3	_	GND
55	FS3840	0	384fs or 512fs output. (out of use)
56	FS1920	0	192fs or 256fs output. (out of use)
57	FS1280	0	128fs output. (out of use)
58	FS640	0	64fs or 32fs output.
59	FS320	0	32fs or 16fs output. (out of use)
60	LRCK0	0	1fs output.
61	AOWCK	0	2fs or 1fs output.
62	ASO	0	Audio data serial output 1.
63	AOTDF1	0	Audio data serial output 2. (out of use)
64	AOTDF2	0	Audio data serial output 3.
65	SI	I	Serial data input from microcomputer (IC600).
66	SICK	I	Clock input for serial data from microcomputer (IC600).
67	SIRQ	I	Request signal input into serial data input from micro computer (IC600).
68	SIAK	0	Serial-input executing output to microcomputer (IC600).
69	SRDY	I	Serial data-input exited input from microcomputer (IC600).
70	SO	0	Serial data output to microcomputer. (out of use)

Pin No.	Pin Name	I/O	Function
71	SOCK	I	Serial clock input for SO. (out of use)
72	SORQ	I	Serial data-output request signal input. (out of use)
73	SOAK	0	Serial data-output executing output. (out of use)
74	Vss4	_	GND
75	RES	I	Reset signal input from microcomputer (IC600).
76	ĪNT	I	Interrupt request input. (connected to +5V.)
77	VDD3	_	Power supply terminal +5V.
78	SELC	I	System clock switching (FS384I: L, Self-running oscilla tor clock: H). (Using FS384I)
79	SACK1	I	FS3840 output switching (1/3 divided frequency output to FS1280: L, 1/4 divided frequency output to FS1280: H). (1/4 devided frequency to FS1280)
80	SACK2	I	FS output clock switching (external input: L, self-running oscillator clock: H). (in use external input)

• IC600 Sub-Controller (HD6433258B44F)

Pin No.	Pin Name	I/O	Function
1	XTAL	0	System clock output. (20 MHz)
2	EXTAL	I	System clock input. (20 MHz)
3	MD	I	Control of the Contro
4	MDO	I	System mode input, fixed into "H". (connected to +5V)
5	_	_	Out of use (GND).
6	Vcc		Power supply terminal (+5V).
7	STBY	I	Stand-by mode input, fixed into "H". (connected to +5V)
8	Vss	_	GND (ground)
9 to 16	_		Out of use (GND).
17	ATT	0	Serial data output to digital signal processor (IC307).
18	RY-PW	0	Power relay (RY901) drive, normally "H".
19	SCK	0	Clock output to digital signal processor (IC307).
20	RY-C	0	Center speaker relay (RY001) drive, normally "H".
21	RY-F	0	Front speaker relay (RY501) drive, normally "H".
22	RY-S	0	Rear speaker relay (RY701) drive, normally "H".
23	PROTECT	I	Protect signal input, normally "H", abnormally "L".
24, 25	_	_	Out of use (GND).
26	ERR	I	Error signal input, this is "H" when clock is not locked on digital input.
27	FS1	1	32k 44.1k 48k ERROR
28	FS2	I	FS1 H L L H FS discriminating port. FS2 H L H L
29	EMP	I	Emphasis input, on: "H", off or analog mode: "L".
30	PRT	0	Input-switching output to digital signal processor (IC307). (digital: H, analog: L)
31	Vcc	_	Power supply terminal (+5V).
32	DPD	0	Reset output to A/D converter (IC202), normally "H".
33	XMD	0	Reset output to digital audio interface (IC305), nor mally "L".
34	INIT	0	Reset signal output to digital signal processor (IC307), normally "L".
35	LDIR	0	Data latch output to digital signal interface (IC305), normally "H".
36	LDAF	0	Data latch output to D/A converter (IC210), normally "L".
37	LDAS	0	Data latch output to D/A converter (IC220), normally "L".
38	_	_	Out of use (GND).
39	FS32	0	FS 32 kHz/44 kHz, 48 kHz output, for PLL circuit switching, normally "H".
40	_	_	Out of use (GND).
41	MUTA	0	Muting signal output to speaker, normally "L".
42	MUTR	0	Out of use (GND).
43	MUTE	0	Muting signal output at the first part of amplifier, normally "H".
44	SRDY	0	Ready signal output to digital signal processor (IC307), normally "L".
45	SIAK	I	Access-confirming signal input to digital signal proc essor (IC307), normally "L".
46	SIRQ	0	Requesting signal output to digital signal processor (IC307), normally "L".
47	DEM1	0	44.1kHz OFF 48kHz 32kHz
48	DEM0	0	DEM1HLHLDe-emphasis seting.DEM0HLLH
49	DIR	0	Source direct switch. (ON: L, OFF: H)
50	C/S	0	Surround-sound switch. (DOLBY: "H", the other: "L")

Pin No.	Pin Name	I/O	Function								
51	MV-	0	Olume down controlled output, normally "H".								
52	MV+	0	olume up controlled input, normally "H".								
53	SUR1	0	TV ON TV OFF TV DIR DIG ELSE ON ELSE OFF ELSE DIR Surround-sound								
.54	SUR2	0	SUR1 L H H L L H H switch. SUR2 L H L L H H H Switch.								
55	_		out of use (GND).								
56	SREQ	0	Slave requesting data output to microcomputer (IC801).								
57	UCLK	I	Clock signal input from microcomputer (IC801).								
58	UDAT	I	Data signal input from microcomputer (IC801).								
59	MREQ	I	Request signal input from microcomputer (IC801).								
60	CL	0	Clock signal output to function IC.								
61	DI	0	Data signal output to function IC.								
62	CE	0	Data latch output to audio selecter (IC102, 103, 104).								
63	CE	0	Data latch output to video selecter (IC1002, 1103, 1104).								
64	URES	I	Reset signal input from microcomputer (IC801), normally "H".								

• IC801 Main Controller (HD6433248B43F)

Pin No.	Pin Name	I/O	Function
1	XTAL	0	Clock output.
2	EXTAL	I	Clock input.
3 to 6			Out of use. (connected to +5V)
7	VDD	_	Power supply terminal +5V.
8	GND	_	GND. (ground)
9	KO0	0	
10	KO1	0	Key output.
11 to 16			Out of use. (open)
17	FLDATA	0	Data output for FL indicator.
18			Out of use. (open)
19	FLCLK	0	Clock output for FL indicator.
20 to 22			Out of use. (open)
23	KI0	I	
24	KI1	I	
25	KI2	I	\rightarrow Key input.
26	KI3	I	
27	KI4	I)
28 to 30			Out of use. (open)
31	VDD	_	Power supply terminal +5V.
32 to 39			Out of use. (open)
40	GND	_	GND
41 to 45			Out of use. (open)
46	DATA	I	Circs signal input from remote commander receiver (IC804).
47	FLCE	0	Latch out put to FL indicator drive (IC802, 803).
48	POW	I	Power switch (S801) on input.
49	UCLK	0	Clock output to microcomputer (IC600).
50	UDATA	I/O	Data input/output from/to microcomputer (IC600).
51	MREQ	0	Request output to microcomputer (IC600).
52	SREQ	I	Request input/output from microcomputer (IC600).
53 to 57			Out of use. (open)
58	URES	0	Reset output to microcomputer (IC600).
59 to 61			Out of use. (open)
62	CLR	0	Clear output to FL indicator drive (IC802, 803).
63	STOP	I	Power supply supervising port input.
64	RESET	I	Reset input from power part.

SECTION 4 EXPLODED VIEWS

NOTE:

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
 G : German model

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number

specified.

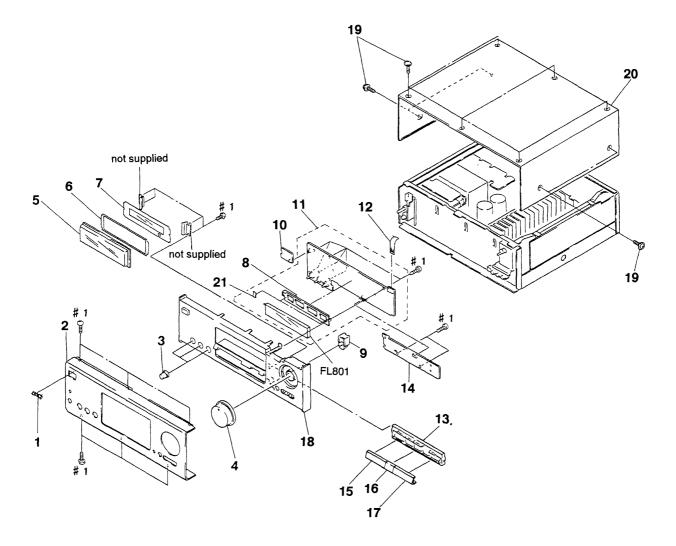
Note:

There are two type of AEP models which are depend on countries.

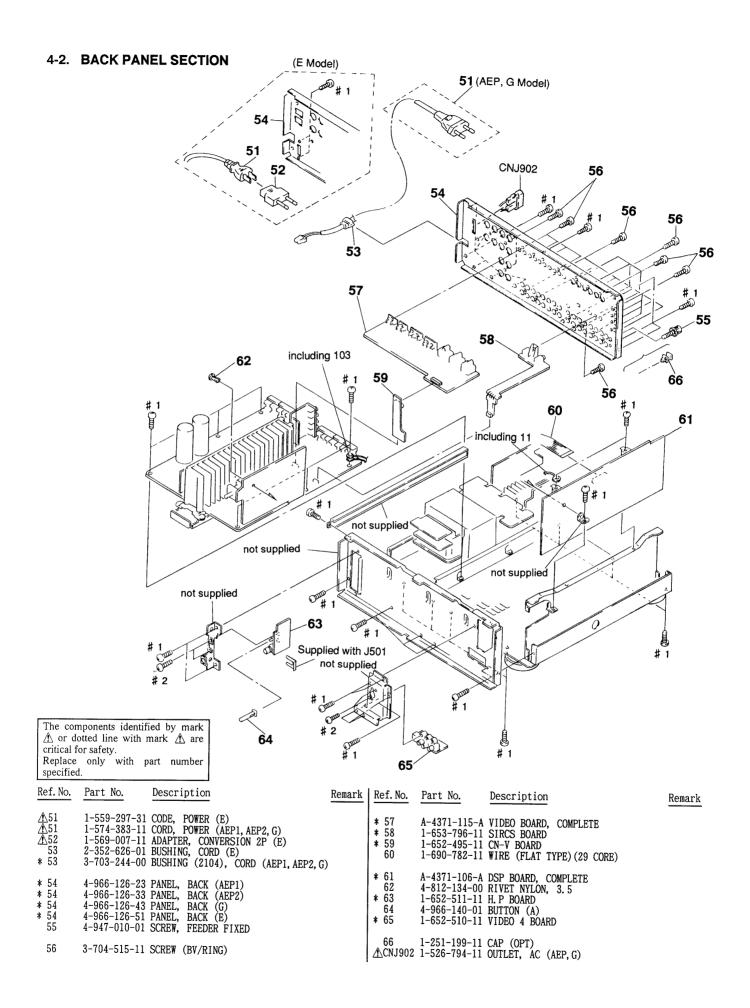
AEP2: Model for Scandinavian countries. Switzerland, Spain and Portugal

AEP1: Model for other European countries

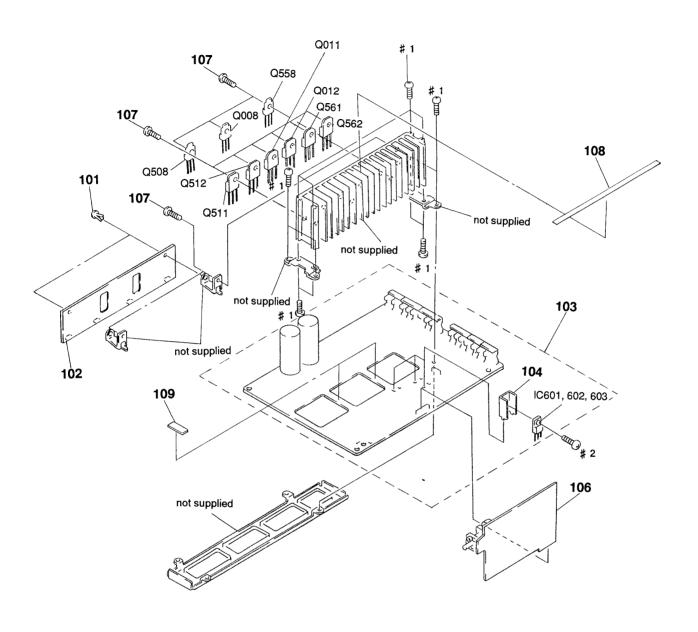
4-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1 2 3 4 5	4-966-127-21 X-3365-387-1 X-4942-798-1	EMBLEM (NO. 5), SONY PANEL (G), FRONT KNOB (BAL) ASSY (B) KNOB (R53) ASSY WINDOW, TRANSPARENT		12 13 * 14 15	X-4944-860-1 1-652-505-11	WIRE, FLAT TYPE (15 CORE) BUTTON (BASE) ASSY KEY BOARD BUTTON (F) (VIDEO)	
6 7 * 8 9 * 10	4-966-132-01 4-966-130-12	SPACER (G) FILTER (A) HOLDER (S), FL TUBE BUTTON (R1)		16 17 18 19 20	4-966-139-21 X-4944-858-1 3-704-366-01 4-966-116-01		
* 11	A-4371-604-A	PANEL BOARD, COMPLETE		* 21 FL801	4-921-941-81 1-517-244-11	CUSHION (FL) INDICATOR TUBE, FLUORESCENT	

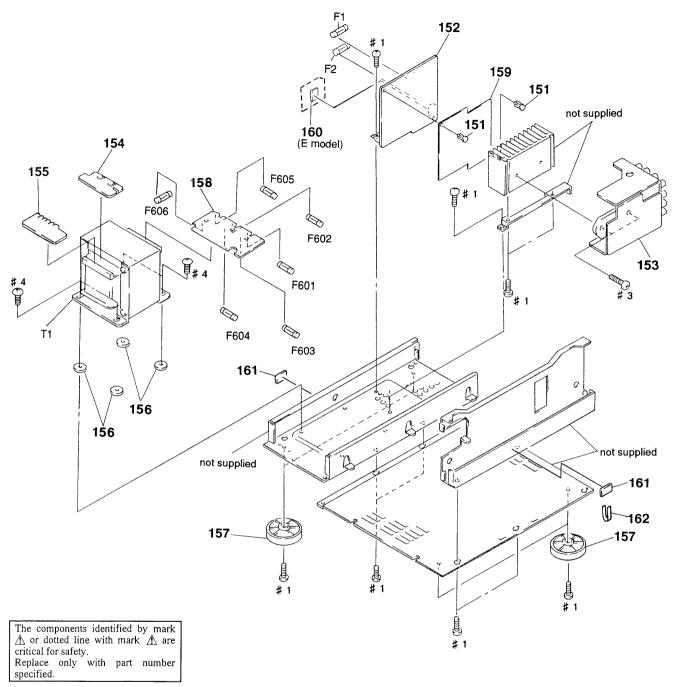


4-3. MAIN BOARD SECTION



Ref. No. P	Part No.	Description	Remark	Ref. No.	Part No.	Description		Remark
* 102 A- * 102 A- * 102 A- * 103 A- * 103 A- * 103 A- * 104 A- * 106 A- * 106 A- * 107 3 108 4	A-4371-120-A A-4371-614-A A-4371-681-A A-4371-605-A A-4371-790-A A-4371-790-A A-4371-780-A A-4371-768-A A-4371-768-A A-4371-768-A A-905-609-01 A-927-653-01	VOL BOARD, COMPLETE (AEP1, AEP2, G) VOL BOARD, COMPLETE (E) SCREW (TRANSISTOR)			8-759-231-58 8-759-245-86 8-759-231-53 8-729-141-89 8-729-318-63 8-729-141-89 8-729-318-63 8-729-318-63 8-729-141-89 8-729-383-73 8-729-383-73 8-729-318-63	IC TA7912S IC TA7805S TRANSISTOR	2SD1585-K 2SC2837 2SA1186 2SD1585-K 2SC2837 2SA1186 2SD1585-K 2SC2837 2SA1186	

4-4. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151 * 152	A-4371-607-A	RIVET NYLON, 3.5 AC BOARD, COMPLETE (AEP1, AEP2, G)		162	4-969-920-01	SHEET (GROUND)	
* 152 * 153 * 153	A-4371-615-A A-4371-606-A	AC BOARD, COMPLETE (E) AMP-S BOARD, COMPLETE (AEP1, E) AMP-S BOARD, COMPLETE (AEP2)		⚠F1 ⚠F2 ⚠F2 ⚠F601	1-532-237-00 1-532-286-00	FUSE, TIME LAG (T3. 15A 250V) FUSE, TIME LAG (T3. 15A 250V) (E) FUSE (2. 5A 250V) (AEP, G)	
* 153 * 154	1-652-497-11	AMP-S BOARD, COMPLETE (G) CN-AC BOARD (AEP1, AEP2, G)		ÆF602	1-532-299-00	FUSE (5. 0A 250V) FUSE (5. 0A 250V)	
* 155 156 157	1-652-496-11 4-916-751-11 X-4941-617-1			↑F603 ↑F604 ↑F605 ↑F606	1-532-259-00 1-532-259-00	FUSE (1. 6A 250V) FUSE (1. 6A 250V) FUSE (1. 6A 250V) FUSE (1. 6A 250V)	
* 158 159	1-653-797-11 4-967-635-01	CN-S BOARD SHEET (INSULATING)		<u></u>	1-426-948-11	TRANSFORMER, POWER (AEP1, G)	
160 161	4-969-894-01 4-930-336-31	SPACER (V. S) (E) FOOT (FELT)		<u>^</u> T1 <u>^</u> T1		TRANSFORMER, POWER (AEP2) TRANSFORMER, POWER (E)	



SECTION 5 ELECTRICAL PARTS LIST

NOTE:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.

Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Note:

There are two type of AEP models which are depend on countries.

AÈP2 model: Model for Scandinavian countries.

1-532-286-00 FUSE (2.5A) (AEP1, AEP2, G)

<u></u>∱F2

Switzerland, Spain and Portugal
Model for other European country

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- · -XX, -X mean standardized parts, so they may have some difference from the original one.
 - Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
 - Abbreviation

G: German model

• Color Indication of Appearance Parts Example: KNOB, BALANCE (WHITE) . . . (RED)

Parts color Cabinet's color

- RESISTORS All resistors are in ohms METAL: Metal-film resistor METAL OXIDE: Metal Oxide-film resistor F: nonflammable
- SEMICONDUCTORS In each case, u: μ , for example: uA...: μ A..., uPA...: μ PA..., uPB...: μ PB..., uPC...: μ PC..., uPD...: μ PD...
- CAPACITORS uF : μ F
- · COII S

**************************************	Remark
* A-4371-615-A AC BOARD, COMPLETE (E)	

1-533-225-11 HOLDER, FUSE	
CAPACITOR Q905 8-729-119-76 TRANSISTOR ZSA1175-HFE	
C903	
C904	
C905	
R902 1-247-736-11 CARBON 56 5% 1/2 (ABP)	
C907 1-124-907-11 ELECT 10uF 20% 50V C908 1-124-464-11 ELECT 0.22uF 20% 50V C937 1-164-096-11 CERAMIC 0.01uF 50V R902 1-249-396-11 CARBON 18 5% 1/41 R904 1-249-436-11 CARBON 1K 5% 1/41 R904 1-249-436-11 CARBON 1K 5% 1/41 R904 1-249-436-11 CARBON 1K 5% 1/41 R905 1-249-436-11 CARBON 1K 5% 1/41 R906 1-249-436-11 CARBON 10K 5% 1/41 R906 1-249-429-11 CARBON 10K 5% 1/41 R906 1-249-429-11 CARBON 10K 5% 1/41 R906 1-249-429-11 CARBON 10K 5% 1/41 R906 1-249-426-11 CARBON 10K 5% 1/41 R908 1-249-417-11 CARBON 1K 5% 1/41 R909 1-249-417-11 CARBON 1K 5% 1/41 R913 1-249-417-11 CARBON 1K 5% 1/41 R913 1-249-429-11 CARBON 10K 5% 1/41 R913 1-249-429-11 CARBON 10K 5% 1/41 R913 1-249-417-11 CARBON 1K 5% 1/41 R913 1-249-417-11 CARBON 1K 5% 1/41 R914 1-249-41	
C908 1-124-464-11 ELECT 0. 22uF 20% 50V R902 1-249-396-11 CARBON 18 5% 1/41 R904 1-249-417-11 CARBON 18 5% 1/41 R904 1-249-436-11 CARBON 10K 5% 1/41 R905 1-249-426-11 CARBON 10K 5% 1/41 R906 1-249-437-11 CARBON 10K 5	
C937 1-164-096-11 CERAMIC CRAMIC CONNECTOR	, AEP2, G) F (E)
R904 1-249-436-11 CARBON 39K 5% 1/4 CN901 1-564-321-00 PIN, CONNECTOR 2P A*CN902 1-564-321-21 PIN, CONNECTOR 2P CN903 1-691-766-11 PLUG (MICRO CONNECTOR) 4P CN904 1-564-321-00 PIN, CONNECTOR 2P (AEP1, AEP2, G) CN904 1-564-321-00 PIN, CONNECTOR 2P (AEP1, AEP2, G) CN904 1-564-321-00 PIN, CONNECTOR 2P (AEP1, AEP2, G) CN904 1-564-321-00 PIN, CONNECTOR 4P (E) R905 1-249-429-11 CARBON 10K 5% 1/4 R909 1-249-417-11 CARBON 1K 5% 1/4 R910 1-249-437-11 CARBON 47K 5% 1/4 R911 1-249-417-11 CARBON 1K 5% 1/4 R912 1-249-429-11 CARBON 1K 5% 1/4 R913 1-249-429-11 CARBON 1K 5% 1/4 R914 1-249-417-11 CARBON 1K 5% 1/4 R915 1-249-427-11 CARBON 1K 5% 1/4 R916 1-249-417-11 CARBON 1K 5% 1/4 R917 1-249-417-11 CARBON 1K 5% 1/4 R918 1-249-417-11 CARBON 1K 5% 1/4 R919 1-249-417-11 CARBON 1K 5% 1/4 R910 1-249-427-11 CARBON 1K 5% 1/4 R910 1-249-417-11 CARBON 1K 5% 1/4 R910 1-249-427-11 CARBON 1K 5% 1/4 R910 1-249-437-11 CARBON 1K 5% 1/4	
R905 1-249-429-11 CARBON 10K 5% 1/41	
CN901 1-564-321-00 PIN, CONNECTOR 2P	
↑ *CN902 1-564-321-21 PIN, CONNECTOR 2P CN903 1-691-766-11 PLUG (MICRO CONNECTOR) 4P CN904 1-564-321-00 PIN, CONNECTOR 2P (AEP1, AEP2, G) CN904 1-568-106-11 PIN, CONNECTOR 4P (E) R908 1-249-426-11 CARBON 5. 6K 5% 1/4* R909 1-249-417-11 CARBON 1K 5% 1/4* R909 1-249-417-11 CARBON 1K 5% 1/4* R910 1-249-437-11 CARBON 1K 5% 1/4* R911 1-249-427-11 CARBON 1K 5% 1/4* R912 1-249-427-11 CARBON 1K 5% 1/4* R913 1-249-429-11 CARBON 1K 5% 1/4* R914 1-249-417-11 CARBON 1K 5% 1/4* R915 1-249-417-11 CARBON 1K 5% 1/4* R916 1-249-417-11 CARBON 1K 5% 1/4* R917 1-249-417-11 CARBON 1K 5% 1/4* R918 1-249-417-11 CARBON 1K 5% 1/4* R919 1-249-417-11 CARBON 1K 5% 1/4* R910 1-24	
CN903 1-691-766-11 PLUG (MICRO CONNECTOR) 4P CN904 1-564-321-00 PIN, CONNECTOR 2P (AEP1, AEP2, G) CN904 1-568-106-11 PIN, CONNECTOR 4P (E) CN904 1-568-106-11 PIN, CONNECTOR 4P (E) AC OUTLET > CN905 1-249-417-11 CARBON R909 1-249-417-11 CARBON R910 1-249-437-11 CARBON R910 1-249-429-11 CARBON R910 1-249-429-11 CARBON R910 1-249-417-11 CARBON R910	
CN904 1-568-106-11 PIN, CONNECTOR 4P (E) R910 1-249-437-11 CARBON 47K 5% 1/4 R913 1-249-429-11 CARBON 10K 5% 1/4 R914 1-249-417-11 CARBON 1K 5% 1/4 R914 1-249-417-11 CARBON 1K 5% 1/4 R915 1-249-429-11 CARBON 1 K 5% 1/4 R916 1-249-429-11 CARBON 1 K 5% 1/4 R917 1-249-417-11 CARBON 1 K 5% 1/4 R918 1-249-417-11 CARBON 1 K 5% 1/4 R919 1-249-417-11 CARBON 1 K 5% 1/4 R919 1-249-429-11 CARBON 1 K 5% 1/4 R919 1-249-429-11 CARBON 1 K 5% 1/4 R910 1-249-437-11 CARBON 1 K 5% 1/4 R910 1-249-429-11 CARBON 1 K 5% 1/4 R910 1-249-437-11 CARBON 1 K 5% 1/4 R910 1-249-437-11 CARBON 1 K 5% 1/4 R910 1-249-417-11 CARBON 1 K 5% 1/4 R910 1-2	
CNJ901 1-540-041-11 OUTLET, AC (NONPOLAR) (2P) (E) R913 1-249-417-11 CARBON 10K 5% 1/4 MCNJ901 1-540-041-11 OUTLET, AC (NONPOLAR) (2P) (E) CRELAY > CNJ901 1-540-041-11 OUTLET, AC (NONPOLAR) (2P) (E) CNJ901 1-540-041-11 OUTLET, AC (NONPOLAR) (2P) (E) CNJ901 1-540-041-11 CARBON 10K 5% 1/4 CNJ901 1-540-041-11 CARBON 1K 5% 1/4 CNJ901 1-	F
R914 1-249-417-11 CARBON 1K 5% 1/4 R915	
**CNJ901 1-540-041-11 OUTLET, AC (NONPOLAR)(2P)(E)	
Control Cont	F
ARY901 1-515-617-11 RELAY	
D903 8-719-200-02 DIODE 10E2 CTRANSFORMER > D904 8-719-200-02 DIODE 10E2 D905 8-719-200-02 DIODE 10E2 D905 8-719-200-02 DIODE 10E2 AT901 1-448-523-11 TRANSFORMER, POWER (E)	
D904 8-719-200-02 DIODE 10E2 D905 8-719-200-02 DIODE 10E2 AT901 1-448-523-11 TRANSFORMER, POWER (E)	
D905 8-719-200-02 DIODE 10E2 <u>A</u> T901 1-448-523-11 TRANSFORMER, POWER (E)	
↓ .	
D907 8-719-987-63 DIODE 1N4148M < SWITCH >	
D908 8-719-933-41 DIODE HZS6C3L	
D909 8-719-933-41 DIODE HZS6C3L AVS901 1-571-437-11 SWITCH, POWER VOLTAGE CHANGE	v nom) (n)
D910 8-719-010-23 DIODE UZ-3. 6BSB (VOLTAGE S	TECL) (F)
D911 8-719-987-63 DIODE 1N4148M ************************************	******
< FUSE >	
AF1 1-532-237-00 FUSE TIME LAG (T3. 15A)	

AMP-A

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description				Remark
*	A-4371-120-A	AMP-A BOARD, CO	OMPLETE (E)	ı				< TRANSISTOR	>			TOMOT II
		*********	*******	•		0001	0 700 000 10					
*	A-4371-614-A	AMP-A BOARD, CO	OMPLETE (G)			Q001 Q002	8-729-620-18 8-729-140-82		2SA979-F 2SA988-F			
		*****				Q003	8-729-119-79		2SC2785-			
						Q004	8-729-201-56		2SK246-0	R2		
*	A-4371-681-A	AMP-A BOARD, CO				Q005	8-729-119-79	TRANSISTOR	2SC2785-	-FEK		
				,,,,		Q006	8-729-104-91		2SA1383			
		< CAPACITOR >				Q007	8-729-104-18		2SC3514			
C001	1-126-059-11	ELECT	10uF	20%	50V	Q501 Q502	8-729-620-18 8-729-140-82		2SA979-F 2SA988-F			
C002	1-130-469-00		680PF	5%	50V	Q502	8-729-119-79		2SC2785-			
C003	1-107-585-11	CERAMIC	5PF	0. 25PF		4000	0 140 110 10	THE HOTOTON	2002100	LLI		
C004	1-126-024-11		220uF	20%	25V	Q504	8-729-201-56	TRANSISTOR	2SK246-G	R2		
C005	1-126-051-11	ELECT	47uF	20%	50V	Q505	8-729-119-79		2SC2785-	FEK		
C006	1-161-959-00	CEDAMIC	22PF	1.00/	E001/	Q506	8-729-104-91		2SA1383			
C007	1-161-959-00		22PF	10% 10%	500V 500V	Q507 Q551	8-729-104-18 8-729-620-18		2SC3514	0		
C015	1-110-339-11		220PF	5%	50V	A331	0-129-020-10	TRANSISTOR	2SA979-F	G		
C501	1-126-059-11	ELECT	10uF	20%	50V	Q552	8-729-140-82	TRANSISTOR	2SA988-P	AFAEA		
C502	1-130-469-00	MYLAR	680PF	5%	50V	Q553	8-729-119-79	TRANSISTOR	2SC2785-			
CEAR	1 107 FOF 11	ODD MIT O	EDD	0.0555		Q554	8-729-201-56		2SK246-G			
C503 C504	1-107-585-11 1-126-024-11		5PF 220uF	0. 25PF 20%	500V 25V	Q555	8-729-119-79		2SC2785-	FEK		
C505	1-126-051-11		47uF	20%	50V	Q556	8-729-104-91	TRANSISTOR	2SA1383			
C506	1-161-959-00		22PF	10%	500V	Q557	8-729-104-18	TRANSISTOR	2SC3514			
C507	1-161-959-00	CERAMIC	22PF	10%	500V	4			2000011			
CE1E	1 110 220 11	MVI AD	00000	50/				< RESISTOR >				
C515 C551	1-110-339-11 1-126-059-11		220PF 10uF	5% 20%	50V	D001	1 045 510 11	albban.				
C552	1-130-469-00		680PF	20% 5%	50V 50V	R001 R002	1-247-713-11 1-249-497-11		1K	5% 5%	1/4W	F
C553	1-107-585-11		5PF	0. 25PF		R002	1-249-497-11		33K 680	5% 5%	1/4W 1/4W	D
C554	1-126-024-11	ELECT	220uF	20%	25V	 ♣R004	1-247-704-11		220	5%	1/4W	F
0555	1 100 051 11	DI DOM				<u></u> \$\text{\$\text{\$\Lambda\$}}\text{\$\text{\$R005}}	1-247-704-11	CARBON	220	5%	1/4W	
C555 C556	1-126-051-11 1-161-959-00		47uF 22PF	20%	50V	DOOG	1 050 100 11	O.I.D.D.O.V				
C557	1-161-959-00		22PF	10% 10%	500V 500V	R006 R007	1-259-436-11 1-259-452-11		2. 2K	5%	1/6W	
C565	1-110-339-11		220PF	5%	50V	R008	1-259-464-11		10K 33K	5% 5%	1/6W 1/6W	
						R009	1-259-460-11		22K	5%	1/6W	
		< CONNECTOR >				R010	1-249-709-11	CARBON	33K	5%	1/2W	
CN561	1-691-767-11	PLUG (MICRO CON	VECTOD) ED		1	D011	1 040 070 11	CADDON	1 0**			
* CN562	1-565-480-11	CONNECTOR, BOARI	TO ROARD	/P		R011 R012	1-249-679-11 1-247-706-11		1.8K		1/2W	D.
		CONNECTOR, BOARI				R012	1-249-460-11		330 15K	5% 5%	1/4W 1/4W	r
* CN564	1-565-480-11	CONNECTOR, BOARI	TO BOARD	4P		⚠ R014	1-249-526-11		82	5%	1/4W	
* CN565	1-565-480-11	CONNECTOR, BOARI	TO BOARD	4P		<u></u> \$R015	1-249-522-11	CARBON	56	5%	1/4W	
		< DIODE >				R501	1-247-713-11	CAPRON	1 V	C0/	1 / AW	D
						R502	1-249-497-11		1K 33K	5% 5%	1/4W 1/4W	r
	8-719-987-63				ľ	R503	1-247-711-11		680	5%	1/4W	F
	8-719-933-35				ļ	<u></u> <u>↑</u> R504	1-247-704-11		220	5%	1/4W	F
	8-719-987-63 8-719-933-35					<u></u> 1 1 1 1 1 1 1 1 1 1	1-247-704-11	CARBON	220	5%	1/4W	F
	8-719-987-63					R506	1-259-436-11	~ADDON	9 017	E0/	1 /077	
- 501		355 IN1110M					1-259-450-11				1/6W 1/6W	
D552	8-719-933-35	DIODE HZS6A3L					1-259-464-11				1/6W	
							1-259-460-11		22K		1/6W	
						R510	1-249-709-11	CARBON			1/2W	
					- 1							

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

AMP-A AMP-S

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description	<u>1</u>			Remark
DE 1.1	1-249-679-11	CADDON	1.8K	592	1/2W		C702	1-162-286-31	CERAMIC	2	220PF	10%	50 V
R511 R512	1-247-706-11				1/4W	F	C703	1-162-286-31			220PF	10%	50V
R512	1-249-460-11				1/4W	•	0,00	1 102 200 01	CERTIFIC	_		20.0	
	1-249-400-11				1/4W		C704	1-124-443-00	FLECT	1	100uF	20%	10 V
<u>^</u> R514					1/4W		C705	1-124-916-11			22uF	20%	63V
<u>^</u> R515	1-249-522-11	CARBON	50 8	ο <i>7</i> 0 .	1/411		C706	1-124-122-11			100uF	20%	50V
		O'DDON	177	-o/	1 / 410	Б					17uF	20%	50V
R551	1-247-713-11				1/4W	r	C707	1-124-910-11			11ur), 1uF	20% 5%	50V
R552	1-249-497-11				1/4W		C708	1-136-165-00	FILM	(J. Tur	576	201
R553	1-247-711-11				1/4W					,	000 B	-w	F017
<u></u> 1€R554	1-247-704-11				1/4W		C709	1-136-163-00			0.068uF	5%	50V
<u> 1</u> R555	1-247-704-11	CARBON	220	5%	1/4W	F	C710	1-136-163-00			0.068uF	5%	50V
							C711	1-162-191-31			2, 2PF	10%	50V
R556	1-259-436-11				1/6₩		C712	1-164-091-11	CERAMIC	(0. 0022uF	10%	50V
R557	1-259-452-11	CARBON	10K		1/6W							(AEP1	, AEP2, E)
R558	1-259-464-11	CARBON	33K	5%	1/6W		C712	1-164-093-11	CERAMIC	(0.0047uF	10%	25V (G)
R559	1-259-460-11	CARBON	22K	5%	1/6W								
R560	1-249-709-11			5%	1/2W		C713	1-136-161-00	FILM	(0.047uF	5%	50V (G)
							C751	1-124-907-11	ELECT		10uF	20%	50V
R561	1-249-679-11	CARBON	1.8K	5%	1/2W		C752	1-162-286-31	CERAMIC	:	220PF	10%	50V
R562	1-247-706-11				1/4W	F	C753	1-162-286-31		:	220PF	10%	50V
R563	1-249-460-11				1/4W	_	C754	1-124-443-00	ELECT		100uF	20%	10V
	1-249-526-11				1/4W		0101	1 121 110 00	DDD01				
<u>↑</u> R564	1-249-520-11				1/4W		C755	1-124-916-11	FI FCT		22uF	20%	63V
<u>1</u> R565	1-249-522-11	CARDON	30	5 <i>7</i> 0	1/4#		C756	1-124-916-11			22uF	20%	63V
							C757	1-124-910-11			47uF	20%	50V
*****	******	******	*****	*****	****	*****	l .					20% 5%	50V
				(4551	>		C758	1-136-165-00			0. 1uF		
*	A-4371-606-A	AMP-S BOARD, CO					C759	1-136-163-00	FILM		0.068uF	5%	50V
		******	*****	*****	**			1 100 100 00	DITH		0 000 5	E0/	FOW
				(,==0)			C760	1-136-163-00			0.068uF	5%	50V
*	A-4371-608-A	AMP-S BOARD, CO					C761	1-162-191-31			2. 2PF	10%	50V
		******	*****	*****			C762	1-164-091-11	CERAMIC		0. 0022uF	10%	50V
			<u>-</u>	/- \			~~~		CED III C		0 00 IF D		, AEP2, E)
*	A-4371-613-A	AMP-S BOARD, CO					C762	1-164-093-11			0.0047uF	10%	25V (G)
		******	*****	***			C763	1-136-161-00	FILM		0. 047uF	5%	50V (G)
									COMMECTO	ר ת			
		< CAPACITOR >							< CONNECTO	K >			
C010	1-136-163-00		0. 068u			50V		. = 0.1 0.10 1.	D*11 001010	0000 0	~		
C011	1-136-163-00		0. 068u			50V		1-564-243-11					
C012	1-164-091-11	CERAMIC	0.0022			50V		1-691-766-21					
						AEP2, E)		1-691-770-11	,		•		
C012	1-164-093-11	CERAMIC	0.0047			25V (G)		1-564-241-00	•		B4P-VH) 4	P	
C017	1-136-153-00) FILM	0.01uF	5%	ó	50V (G)	CN506	1-766-258-11	CONNECTOR	8P			
C510	1-136-163-00		0. 068t			50 V	1	1-766-258-11					
C511	1-136-163-00) FILM	0. 068u	ıF 5%	ó	50V	CN508	1-766-258-11	CONNECTOR	8P			
C512	1-136-165-00) FILM	0. 1uF	5%	ó	50V	CN701	1-691-765-11	PLUG (MICE	O CONN	IECTOR) 3F)	
C513	1-124-471-00	ELECT	1000uF	· 20)%	6. 3V							
C514	1-164-091-11		0.0022)%	50V			< DIODE >				
				((AEP1	, AEP2, E)							
					,		D504	8-719-987-63	B DIODE 1N	14148M			
C514	1-164-093-11	CERAMIC	0.0047	7uF 10)%	25V (G)	D505	8-719-987-63		14148M			
C517	1-136-153-00		0. 01uI			50V (G)	D506	8-719-987-63		14148M			
C560	1-136-163-00		0. 0681			50V	D507	8-719-987-63		14148M			
C561	1-136-163-00		0. 0681			50V	D508	8-719-987-63		14148M			
C564	1-164-091-13		0. 0022			50V	2000	0 110 001 00	DIODE II	111 1011			
C504	1-104-081-1.	CERAMIC	0. 0022			, AEP2, E)	D509	8-719-987-63	S DIODE 18	N4148M			
				,	(VDL I	, ali 4, E)	D510	8-719-987-6		14148M			
0504	1 167 000 1	1 CEDAMIC	0. 004	7.1E 1/	0%	25V (G)	1	8-719-987-6		14148M			
C564	1-164-093-13					50V (G)		8-719-200-0		N4140M)E2			
C567	1-136-153-00		0. 01ul				D514 D515	8-719-200-0		14148M			
C701	1-124-907-1	I ELECI	10uF	۷۱	0%	50V	פופת ו	0-119-201-0	י ממסזמי	141401/1			
									Γ	The co	mponents i	dentified	l by mark

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

AMP-S

												*
Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description	<u>!</u>			Remark
D517	8-719-987-63	B DIODE 1N41	12M			R535	1-249-437-11	CADDON	47K	E 0/	1 / / W	
D701	8-719-987-63					R536	1-249-437-11		47K 47K	5% 5%	1/4W 1/4W	
D702	8-719-987-63					R537	1-249-436-11		39K	5%	1/4W	
D751	8-719-987-63					R538	1-249-429-11		10K	5%	1/4₩	
						R539	1-249-437-11		47K	5%	1/4W	
		< IC >					1 210 101 11	CHILDON	7117	5/0	1/ 11	
						R540	1-249-417-11	CARBON	1K	5%	1/4W	F
IC701	8-749-941-52	IC STK-415	52II			R542	1-249-421-11		2. 2K	5%	1/4W	
						R543	1-249-421-11		2. 2K	5%	1/4W	
		< COIL >				R545	1-249-482-11		4. 7	5%		F (G)
						R579	1-247-727-11		10	5%	1/2W	1 (0)
* L001		COIL, AIR-CO										AEP2, E)
* L501	1-420-872-00	COIL, AIR-CO	RE 1.9uH								· · · · · ·	
* L551		COIL, AIR-CO				R579	1-247-731-11	CARBON	22	5%	1/2₩	(G)
* L701		COIL, AIR-CO				R580	1-247-727-11	CARBON	10	5%	1/2W	` '
* L751	1-420-872-00	COIL, AIR-CO	RE 1.9uH			R581	1-249-438-11		56K	5%	1/4W	
						R582	1-249-425-11	CARBON	4.7K	5%	1/4W	F
		< TRANSISTOR	>			R583	1-249-425-11	CARBON	4.7K	5%	1/4W	
Q514	8-729-140-84		2SC1841-		A	R584	1-249-437-11	CARBON	47K	5%	1/4W	
Q515	8-729-620-05		2SC2603-			R592	1-249-421-11		2. 2K	5%	1/4W	
Q516	8-729-620-05		2SC2603-			R595	1-249-482-11		4.7	5%	1/2W	F (G)
Q517	8-729-620-05		2SC2603-			R701	1-249-438-11		56K	5%	1/4W	
Q518	8-729-620-05	TRANSISTOR	2SC2603-	-EF		R702	1-249-417-11	CARBON	1K	5%	1/4W	F
0510	0 500 000 05	mp thoromop										
Q519	8-729-620-05		2SC2603-			R703	1-249-411-11		330	5%	1/4W	
Q520	8-729-620-05		2SC2603-			R704	1-249-438-11		56K	5%	1/4₩	
Q701	8-729-140-82		2SA988-F			<u></u> 1.05 R705	1-247-700-11		100	5%	1/4W	
Q751	8-729-140-82	1KAN51510K	2SA988-F	AFAŁA		R706	1-249-421-11		2. 2K	5%	1/4W	F
		/ DECICTOR >				R707	1-247-756-11	CARBON	2. 2K	5%	1/2W	
		< RESISTOR >				A D500	1 0/5 500 11					
R029	1-247-727-11	CADDON	10	5%	1 /00	<u></u> 1.08 R708	1-247-700-11		100	5%	1/4W	F
N025	1-241-121-11	CARDON	10	576	1/2W	R709	1-247-752-11		1K	5%	1/2W	
R029	1-247-731-11	CAPRON	22	E0/	(AEP1, AEP2, E)	R710	1-247-752-11		1K	5%	1/2W	
R030	1-247-727-11		10	5% 5%	1/2W (G) 1/2W	R711	1-249-431-11		15K	5%	1/4W	_
R031	1-249-438-11		56K	5% 5%	1/4W	R712	1-249-417-11	CARBON	1K	5%	1/4W	F
R032	1-247-745-11		330	5%	1/2W F	R713	1 217 151 00	DEC METAL I	מתאזר מ	0	0111	
11002	1 21/ (40 11	CHILDOIN	000	3/0	(AEP1, G, E)	R714	1-217-151-00 1-249-438-11				2W	
					(ALI 1, 0, L)	R715	1-247-727-11		56K 10	5%	1/4W	
R032	1-247-747-11	CARBON	470	5%	1/2W (AEP2)	Kilo	1 241-121-11	CANDON	10	5%	1/2W	APDO D)
R033	1-249-425-11		4. 7K		1/4W F	R715	1-247-731-11	CADDON	22	5%		AEP2, E)
R034	1-249-421-11		2. 2K		1/4W F	R716	1-247-727-11		10	5% 5%	1/2W 1/2W	(G)
R035	1-249-421-11		2. 2K		1/4W F	11110	1 241 121 11	CARDON	10	3/0	1/21	
R036	1-249-421-11		2. 2K		1/4W F	R717	1-247-745-11	CARRON	330	5%	1/2W	D
					-,		1 511 110 11	Childon	000	J/0		P1, G, E)
R037	1-249-437-11	CARBON	47K	5%	1/4W	R717	1-247-747-11	CARBON	470	5%		(AEP2)
R045	1-249-482-11	CARBON	4.7	5%	1/2W F (G)	<u>^</u> R718	1-249-389-11		4.7	5%		F (G)
R529	1-247-727-11	CARBON	10	5%	1/2W	R751	1-249-438-11		56K	5%	1/4W	r (u)
					(AEP1, AEP2, E)	R752	1-249-417-11		1K	5%	1/4W	F
R529	1-247-731-11	CARBON	22	5%	1/2W (G)				-11	070	1/ 11	1
R530	1-247-727-11	CARBON	10	5%	1/2W	R753	1-249-411-11	CARBON	330	5%	1/4W	
						R754	1-249-438-11		56K	5%	1/4W	
R531	1-249-438-11	CARBON	56K	5%	1/4W	R756	1-249-421-11		2. 2K		1/4W	F
R532	1-247-745-11	CARBON	330	5%	1/2W F	R757	1-247-756-11		2. 2K		1/2W	-
					(AEP1, G, E)	R761	1-249-431-11	CARBON	15K	5%	1/4W	
R532	1-247-747-11		470	5%	1/2W (AEP2)						-, - "	
	1-249-418-11		1.2K		1/4W F	R762	1-249-417-11	CARBON	1K	5%	1/4W	F
R534	1-249-425-11	CARBON	4.7K	5%	1/4W F	R763	1-217-151-00	RES, METAL P			2W	
					j	R764	1-249-437-11			5%	1/4W	

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AMP-S CN-AC CN-M CN-S CN-V DSP

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description			Remark
R765	1-247-727-11	CARBON	10	5%	1/2W	AEP2, E)	*	1-652-501-11	CN-S BOARD (E) *******			
R765	1-247-731-11	CARBON	22	5%	1/2W		*	1-653-797-11	CN-S BOARD (AEP1	. AEP2. G)		
R766 ∕î\R768	1-247-727-11 1-249-389-11		10 4.7	5% 5%	1/2W 1/4W	F (G)			********			
<u> </u>	1 110 000 11	< RELAY >			_,			1-533-225-11	HOLDER, FUSE			
PV001	1-515-533-11	RELAY							< CONNECTOR >			
RY501	1-515-533-11 1-515-727-11	RELAY							PLUG (MICRO CONN PIN, CONNECTOR 5			
RY504	1-515-727-11 1-515-533-11	RELAY					. 0.1010	2 001 212 00	< FUSE >	-		
KY/UI	1-515-555-11						∕î\F601	1-532-299-00				
		< TERMINAL >	(OD)				<u></u> 1 1 1 1 1 1 1 1 1 1	1-532-299-00	FUSE (5.0A)			
		TERMINAL BOARD (FRONT/C	ENTER	SPEAK	ERS) (AI	EP1, G, E)	⚠ F603 ⚠ F604	1-532-259-00 1-532-259-00	FUSE (1.6A)			
			NT/CEN			S) (AEP2)	<u> </u>	1-532-259-00				
* TM701	1-537-616-11	TERMINAL BOARD	(SP) (F	REAR S		S) EP1, G, E)	<u> </u>	1-532-259-00	FUSE (1.6A)			
TM701	1-537-767-11	TERMINAL BOARD	(SP)	(REAR	SPEAKEI	RS) (AEP2)	******	*********	***********	********	*****	******
*****	******	******	*****	*****	*****	*****	*	1-652-495-11	CN-V BOARD *******			
*	1-652-497-11	CN-AC BOARD (AE	P1, AEI	2, G)					< CONNECTOR >			
		*****					1		PIN, CONNECTOR 8			
		< CONNECTOR >							CONNECTOR (BOARI	·		
* CN1	1-564-321-21	PIN, CONNECTOR	2P				*******		******		*****	*****
*****	******	******	*****	*****	*****	******	*	A-4371-106-A	DSP BOARD, COMPI			
*	1-652-496-11	*********							< CAPACITOR >			
		< CAPACITOR >					C203	1-126-059-11		10uF	20%	50V
C670	1-136-165-00	FILM	0. 1u	F	5%	50 V	C204 C205	1-136-153-00 1-136-153-00	FILM	0. 01uF 0. 01uF	5% 5%	50V 50V
		< CONNECTOR >					C206 C207	1-164-159-11 1-164-159-11		0. 1uF 0. 1uF		50V 50V
		PLUG, CONNECTOR					C208	1-164-159-11		0. 1uF		50V
* CN671	1-564-104-00) PIN, CONNECTOR	(B3P-	VH) 3F	•		C209 C210	1-164-159-11 1-164-159-11		0. 1uF 0. 1uF		50V 50V
		< DIODE >					C211 C212	1-110-337-51 1-101-884-00		150PF 56PF	5% 5%	50V 50V
D623 D624	8-719-200-02 8-719-200-02						C213	1-101-884-00	CERAMIC	56PF	5%	50V
D625 D626	8-719-200-02 8-719-200-02	2 DIODE 10E2					C214 C215	1-130-479-00 1-130-472-00		0.0047uF 0.0012uF	5% 5%	50V 50V
			راد داد داد رای رای رای را	. داد داد داد داد داد داد	ا د داد داد داد داد داد داد داد داد داد		C216	1-130-472-00 1-126-049-11 1-110-337-51	ELECT	22uF 150PF	20% 5%	25V 50V
*****	· ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ	*******	ኮፋቶቶች	<u> </u>	r ቀ ቀ ቀ ቆ ቆ ቆ	•ጥጥጥጥጥችች						
							C222 C223	1-101-884-00 1-101-884-00		56PF 56PF	5% 5%	50V 50V

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.



Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C224	1-130-479-00	MYLAR	0. 0047uF	5%	50V	C318	1-164-159-11	CERAMIC	0. 1uF		50V
C225	1-130-472-00		0.0012uF	5%	50V	C319	1-164-159-11		0. 1uF		50V
C226	1-126-049-11	ELECT	22uF	20%	25V	C320	1-164-159-11	CERAMIC	0. 1uF		50V
C231	1-126-059-11	ELECT	10uF	20%	50V	C321	1-136-173-00	FILM	0. 47uF	5%	50V
C232	1-130-479-00	MYLAR	0.0047uF	5%	50V	C322	1-126-023-11		100uF	20%	16V
C233	1-130-475-00		0. 0022uF	5%	50V	C323	1-164-159-11		0. 1uF		50V
C234	1-126-049-11		22uF	20%	25V	C325	1-164-159-11		0. 1uF		50V
C235	1-164-159-11	CERAMIC	0. 1uF		50V	C326	1-162-306-11	CERAMIC	0. 01uF	20%	16V
C236	1-164-159-11		0. 1uF		50V	C328	1-162-199-31		10PF	5%	50 V
C237	1-164-159-11		0. 1uF	000/	50V	C329	1-126-049-11		22uF	20%	25V
C253 C254	1-126-059-11 1-136-153-00		10uF	20%	50V	C330	1-162-211-31		33PF	5%	50V
C254 C255	1-136-153-00		0. 01uF 0. 01uF	5% 5%	50V 50V	C331 C332	1-162-199-31 1-164-159-11		10PF 0. 1uF	5%	50V 50V
			0.0141	070	501	0002	1 104 105 11	CERAMIC	o. rur		30¥
C256	1-124-995-11		220uF	20%	10V	C333	1-126-023-11		100uF	20%	16V
C257	1-124-995-11		220uF	20%	10V	C334	1-161-494-00		0. 022uF		25V
C258 C259	1-126-049-11 1-126-022-11		22uF 47uF	20% 20%	25V	C335	1-162-294-31		0.001uF	10%	50V
C259	1-126-022-11		22uF	20%	25V 25V	C337 C338	1-164-159-11 1-162-199-31		0. 1uF 10PF	5%	50V 50V
0200	1 120 040 11	EDDCI	22ui	2070	251	C330	1-102-199-31	CERAMIC	1077	5 %	507
C261	1-110-337-51		150PF	5%	50V	C339	1-164-159-11	CERAMIC	0. 1uF		50V
C262	1-101-884-00		56PF	5%	50V	C340	1-164-159-11		0. 1uF		50V
C263	1-101-884-00		56PF	5%	50V	C341	1-124-995-11		220uF	20%	10V
C264 C265	1-130-479-00 1-130-472-00		0. 0047uF 0. 0012uF	5% 5%	50V 50V	C342 C343	1-164-159-11		0. 1uF	0.00/	50V
C203	1-130-472-00	MILAN	0. 0012ur	3/0	507	C343	1-126-023-11	ELECI	100uF	20%	16V
C266	1-126-049-11		22uF	20%	25V	C344	1-164-159-11	CERAMIC	0. 1uF		50V
C271	1-110-337-51		150PF	5%	50V	C345	1-164-159-11		0. 1uF		50V
C272	1-101-884-00		56PF	5%	50V	C347	1-164-159-11		0. 1uF		50V
C273 C274	1-101-884-00 1-130-479-00		56PF 0. 0047uF	5% 5%	50V 50V	C348 C349	1-126-023-11		100uF	20%	16V
0214			0. 004 rur	J/0	301	C349	1-164-159-11	CERAMIC	0. 1uF		50V
C275	1-130-472-00		0.0012uF	5%	50V	C351	1-126-022-11		47uF	20%	25V
C276	1-126-049-11		22uF	20%	25V	C353	1-164-159-11		0. 1uF		50V
C281 C282	1-126-059-11 1-130-479-00		10uF	20%	50V	C355	1-164-159-11		0. 1uF		50V
C282	1-130-479-00		0. 0047uF 0. 0022uF	5% 5%	50V 50V	C360 C361	1-164-159-11		0. 1uF		50V
0200	1 100 410 00	MI LIM	0. 0022ur	3/0	301	C301	1-164-159-11	CERAMIC	0. 1uF		50V
C284	1-126-049-11		22uF	20%	25V	C362	1-126-023-11	ELECT	100uF	20%	16V
C285	1-126-059-11		10uF	20%	50V	C363	1-126-023-11		100uF	20%	16V
C286 C287	1-164-159-11		0. 1uF		50V	C364	1-164-159-11		0. 1uF		50V
C301	1-164-159-11 1-164-159-11		0. 1uF 0. 1uF		50V 50V	C365 C390	1-164-159-11		0. 1uF		50V
0001	1 104 100 11	CLITANIC	o. rur		301	C390	1-164-159-11	CERAMIC	0. 1uF		50V
C302	1-164-159-11		0. 1uF		50V	C392	1-164-159-11		0. 1uF		50V
C303	1-164-159-11		0. 1uF		50V	C393	1-126-023-11		100uF	20%	16V
C305 C306	1-164-159-11 1-164-159-11		0. 1uF 0. 1uF		50V	C394	1-126-023-11		100uF	20%	16V
C307	1-164-159-11		0. 1uF		50V 50V	C395 C396	1-164-159-11 1-124-995-11		0. 1uF 220uF	20%	50V
						2000	1 121 333 11	LILLO I	220ur	2070	10V
C310	1-162-207-31			5%	50V	C397	1-164-159-11		0. 1uF		50V
C311	1-162-207-31			5%	50V		1-126-023-11		100uF	20%	16V
C312 C313	1-162-294-31 1-164-159-11		0. 001uF 0. 1uF	10%	50V 50V	C399	1-126-023-11	ELECT	100uF	20%	16V
C314	1-162-306-11			20%	16V			< CONNECTOR >			
C316	1-164-159-11		0. 1uF	000	50V			SOCKET, CONNECTO			
C317	1-126-023-11	ELECI	100uF	20%	16V	CNE201	1-691-768-11	PLUG (MICRO CONN	ECTOR) 6P		

DSP

Ref. No.	Part No.	Descript	ion	Remark	Ref. No.	Part No.	Description				Remark
CNE202	2 1-691-771-11	PLUG (MI	(CRO CONNECTOR)	9P	L312	1-409-644-11					
		< DIODE	>		L313 L314	1-409-644-11 1-410-324-11		4. 7uH			
					L320	1-410-324-11		4. 7uH			
D301 D302	8-719-987-63 8-719-987-63		1N4148M 1N4148M				< TRANSISTOR	>			
D304	8-719-901-59	DIODE	KV1320								
D305	8-719-903-27	DIODE	1SS168		Q201 Q202	8-729-141-30 8-729-141-30		2SC3623A- 2SC3623A-			
		< FERRIT	TE BEAD >		Q202	8-729-141-30		2SC3623A			
ED201	1 410 207 21	CCDDITE	BEAD INDUCTOR		Q204 Q205	8-729-141-30 8-729-141-30		2SC3623A- 2SC3623A-			
			BEAD INDUCTOR		Q 203	0.125-141-50	TIMISTOTO	23C3023R	LIX		
		< IC >			Q251	8-729-141-30 8-729-141-30		2SC3623A- 2SC3623A-			
		(10)			Q252 Q253	8-729-141-30		2SC3623A			
	8-759-710-59		M4580D-D		Q254	8-729-141-30	TRANSISTOR	2SC3623A	-LK		
	8-759-191-20 8-759-708-05		5369VP M78L05A		Q255	8-729-141-30	TRANSTSTOR	2SC3623A	-LK		
IC205	8-759-700-65	IC NJM	M79L05A		Q303	8-729-200-56		2SK241-G			
1C206	8-759-708-05	IC NJM	M78L05A		Q304 Q305	8-729-200-56 8-729-900-61		2SK241-G DTA114ES			
	8-752-359-50		D2564AM			0 120 000 02					
	8-759-710-59 8-752-359-50		M4580D-D D2564AM		i		< RESISTOR >				
IC221	8-759-710-59	IC NJM	M4580D-D		R202	1-259-476-11		100K		1/6₩	
IC230	8-759-185-28	IC PCM	M1710U-AT1		R205 R206	1-259-404-11 1-259-396-11		100 47	5% 5%	1/6W 1/6W	
IC231	8-759-710-59	IC NJM	M4580D-D		R207	1-259-464-11		33K	5%	1/6W	
	8-759-710-59		M4580D-D		R208	1-259-464-11	CARBON	33K	5%	1/6₩	
	8-759-710-59 8-759-267-43		M4580D-D 3902		R209	1-259-380-11	CARBON	10	5%	1/6W	
IC307	8-759-075-34		33015		R210	1-249-461-11		18K	5%	1/4W	
10308	8-759-165-17	TC MTA	4C4256-8A		R211 R212	1-249-461-11 1-247-152-00		18K 8.2K	5% 5%	1/4W 1/4W	
	8-759-250-81		5081AP		R213	1-247-152-00		8. 2K		1/4W	
	8-759-917-11		74HC393AN		D014	1 040 405 11	CADDON	4517	-0 /	1 / / 777	
	8-759-917-18 8-759-708-08		74HCUO4AN M78LO8A		R214 R215	1-249-465-11 1-249-465-11		47K 47K	5% 5%	1/4W 1/4W	
10010	0 100 100 00	10 1101			R216	1-249-556-11		1.5K		1/4W	
		< JACK >	>		R217	1-249-556-11		1.5K		1/4W	
10301	8-749-921-11	IC GP1	1F32R (OPTICAL :	I IN)	R218	1-247-887-00	CARBON	220K	5%	1/4W	
	8-749-921-11		1F32R (OPTICAL		R219	1-247-708-11	CARBON	470	5%	1/4W	F
	8-749-921-11		1F32R (OPTICAL :		R220	1-249-461-11		18K	5%	1/4W	
1C353	8-749-921-12	IC GPI	1F32T (OPTICAL :	3 OUT)	R221 R222	1-249-461-11		18K 8.2K	5% =«	1/4W	
		< COIL >	>		R223	1-247-152-00 1-247-152-00		8. 2K		1/4W 1/4W	
L202	1-410-324-11	INDUCTOR	R 4.7uH		R224	1-249-465-11	CAPRON	47K	5%	1/4W	
L301	1-410-324-11				R225	1-249-465-11		47K 47K	5%	1/4W	
L302	1-410-324-11	INDUCTOR			R226	1-249-556-11		1.5K	5%	1/4W	
L303	1-410-324-11				R227	1-249-556-11		1.5K		1/4W	
L304	1-410-324-11	INDUCTOR	R 4.7uH		R228	1-247-887-00	CARBON	220K	5%	1/4W	
L305	1-410-324-11				R229	1-247-708-11		470		1/4₩	F
L306 L308	1-410-324-11 1-410-324-11				R231 R232	1-259-432-11		1.5K		1/6W	
L309	1-410-324-11				R233	1-259-432-11 1-249-413-11		1.5K 470	5% 5%	1/6W 1/4W	F
L310	1-410-324-11				R234	1-247-887-00		220K		1/4W	•

DSP

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
R240	1-247-708-11	CARBON	470	5%	1/4W	F	R321	1-249-423-11	CADDON	2 21/	гo/	1 / 4307	D
R241	1-247-708-11		470	5%	1/4W		R322	1-249-417-11	******	3. 3K 1K	5% 5%	1/4W	
R252	1-259-476-11		100K		1/6W	•	R323	1-249-417-11		1K 1K	5% 5%	1/4W 1/4W	
R255	1-259-404-11		100	5%	1/6W		R324	1-249-429-11		10K	5% 5%	1/4W	Г
R256	1-259-396-11		47	5%	1/6W		R325	1-259-476-11		10K		1/4W	
				0,0	2, 0		11020	1 200 410 11	CARDON	1001	3/0	1/0#	
R257	1-259-464-11	CARBON	33K	5%	1/6W		R326	1-247-903-00	CARBON	1M	5%	1/4W	
R258	1-259-464-11		33K	5%	1/6W		R327	1-249-429-11		10K	5%	1/4W	
R260	1-249-461-11		18K	5%	1/4W		R328	1-249-428-11		8. 2K		1/4W	r.
R261	1-249-461-11		18K	5%	1/4W		R329	1-259-476-11		100K		1/6W	Г
R262	1-247-152-00	CARBON	8. 2K	5%	1/4W		R330	1-249-417-11		1K	5%	1/4W	F
											0,0	-/ -11	•
R263	1-247-152-00	CARBON	8. 2K	5%	1/4W		R331	1-249-417-11	CARBON	1K	5%	1/4W	F
R264	1-249-465-11	CARBON	47K	5%	1/4W		R332	1-249-417-11		1K	5%	1/4W	
R265	1-249-465-11		47K	5%	1/4W		R333	1-259-404-11		100	5%	1/6W	-
R266	1-249-556-11		1.5K		1/4W		R334	1-249-417-11	CARBON	1K	5%	1/4W	F
R267	1-249-556-11	CARBON	1.5K	5%	1/4W		R335	1-247-903-00	CARBON	1M	5%	1/4W	
						Ì							
R268	1-247-887-00		220K		1/4W		R336	1-247-903-00	CARBON	1M	5%	1/4W	
R269	1-247-708-11		470	5%	1/4W	F	R337	1-247-887-00	CARBON	220K	5%	1/4W	
R270	1-249-461-11		18K	5%	1/4W		R340	1-259-388-11		22	5%	1/6W	
R271	1-249-461-11		18K	5%	1/4W		R341	1-259-404-11		100	5%	1/6W	
R272	1-247-152-00	CARBON	8. 2K	5%	1/4W		R342	1-259-388-11	CARBON	22	5%	1/6W	
D070	1 045 150 00	CIPPON											
R273	1-247-152-00		8. 2K		1/4W	į	R343	1-249-425-11		4.7K	5%	1/4W	F
R274	1-249-465-11		47K	5%	1/4W		R344	1-249-425-11		4.7K		1/4W	F
R275	1-249-465-11		47K	5%	1/4W	İ	R345	1-249-425-11		4.7K	5%	1/4W	F
R276	1-249-556-11		1.5K	5%	1/4W		R346	1-249-425-11		4.7K		1/4₩	
R277	1-249-556-11	CARBON	1.5K	5%	1/4W		R347	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R278	1-247-887-00	CADDON	2201/	ΕØ	1 / 4 97	1	D0E0	1 040 410 11	CIPPON				
R279	1-247-708-11		220K 470	5% 5%	1/4W	_	R353	1-249-413-11		470	5%	1/4W	
R281	1-259-432-11			5% 5%	1/4W	r	R354	1-249-413-11		470	5%	1/4W	
R282	1-259-432-11		1.5K 1.5K		1/6W 1/6W	ŀ	R357	1-249-413-11		470	5%	1/4W	
R283	1-249-413-11		1. 3K 470	5%	1/4W	- I	R358	1-249-417-11		1K	5%	1/4W	
11200	1 240 410 11	CARBON	410	<i>31</i> 0	1/41	r	R359	1-249-417-11	CARBON	1K	5%	1/4W	F
R284	1-247-887-00	CARRON	220K	5%	1/4W		R361	1-259-396-11	CADDON	477	-0 /	1 /00	
R290	1-247-708-11		470	5%	1/4W	F	R362	1-259-396-11		47	5%	1/6W	
R291	1-247-708-11		470	5%	1/4W		R363	1-259-404-11	CARDON		5%	1/6W	
R301	1-249-413-11		470	5%	1/4W		R369	1-249-413-11		100 470	5% 5%	1/6W	D
R302	1-249-413-11		470	5%	1/4₩		R370	1-249-425-11			5%	1/4W 1/4W	
			-,-	0,0	-, -,,	1	11010	1 240 420 11	CARDON	4. /h	3/0	1/4#	r
R303	1-249-413-11	CARBON	470	5%	1/4W	F	R371	1-249-413-11	CARBON	470	5%	1/4₩	F
R305	1-249-413-11	CARBON		5%	1/4W			1-249-425-11		4. 7K	5%	1/4W	
R306	1-249-413-11	CARBON	470	5%	1/4W			1-249-413-11				1/4W	
R307	1-249-413-11	CARBON	470	5%	1/4W	F		1-249-413-11				1/4W	
R308	1-249-413-11	CARBON	470	5%	1/4W	F		1-249-413-11				1/4W	
											0,0	-, -,	•
R310	1-259-404-11		100	5%	1/6W		R379	1-249-413-11	CARBON	470	5%	1/4W	F
R311	1-247-903-00		1M	5%	1/4W]		1-249-413-11				1/4W	
R312	1-259-464-11			5%	1/6₩		R381	1-249-413-11	CARBON			1/4W	
	1-247-864-11			5%	1/4W	- 1		1-249-413-11	CARBON			1/4W	
R314	1-249-426-11	CARBON	5.6K	5%	1/4W			1-249-413-11				1/4W	
D015	1 047 011 01	CADDON	150										
R315	1-247-811-31 (5%	1/4W			1-249-413-11 (470	5%	1/4W	F
	1-249-426-11 (5. 6K		1/4W			1-249-413-11 (470	5%	1/4W	F
	1-259-464-11 (5%	1/6W	- 1		1-249-413-11 (1/4W	F
	1-249-437-11 (5%	1/4W	_		1-249-413-11 (1/4W	
R320	1-249-423-11 (MNDUN	3. 3K	5%	1/4W	r	R388	1-249-413-11 (CARBON	470	5%	1/4W	F
						1							

DSP H.P KEY MAIN

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description			Remark
R389 R390	1-249-413-11 1-259-388-11	CARBON	470 22	5%	1/4W 1/6W	F	*	A-4371-605-A	MAIN BOARD, COM *********	•		
R391 R392 R393	1-259-404-11 1-259-388-11 1-249-425-11	CARBON	100 22 4. 7K	5% 5% 5%	1/6W 1/6W 1/4W	F	*	A-4371-609-A	MAIN BOARD, COM *********			
R394 R395	1-249-425-11 1-249-425-11 1-249-425-11	CARBON	4. 7K 4. 7K	5%	1/4W 1/4W 1/4W	F	*	A-4371-790-A	MAIN BOARD, COM *********			
R396 R397	1-249-425-11		4. 7K 4. 7K		1/4W 1/4W		*		HEAT SINK SPACER (DIA. 34 SCREW +BVTT 3X6			
X301	1-567-970-11	VIBRATOR, CRYST	AL (24	.576 M	Hz)			. 002 011 00	< CAPACITOR >	(6)		
******	:******	******	*****	*****	*****	*****	C008	1-126-051-11		47uF	20%	50 V
*	1-652-511-11	H. P BOARD ******					C009 C100 C101 C102	1-136-165-00 1-162-284-31 1-110-335-11 1-126-059-11	CERAMIC MYLAR	0. 1uF 150PF 100PF 10uF	5% 10% 5% 20%	50V 50V (G) 50V 50V
		< CONNECTOR >										
CN503	1-691-766-21	PLUG (MICRO CON	NECTOR	?) 4P			C103 C104 C105	1-162-282-31 1-126-022-11 1-130-480-00	ELECT MYLAR	100PF 47uF 0. 0056uF	10% 20% 5%	50V 16V 50V
		< JACK >					C106 C107	1-104-842-91 1-126-043-11		0.0016uF 0.47uF	5% 20%	50V 50V
J501	1-507-796-71	JACK (HEADPHONE	S)				C108	1-126-022-11	ELECT	47uF	20%	16V
		< RESISTOR >					C109 C110	1-162-284-31 1-162-284-31	CERAMIC	150PF 150PF	10% 10%	50V (G) 50V (G)
R541 R591	1-247-749-11 1-247-749-11		560 560	5% 5%	1/2\ 1/2\		C111 C112	1-162-284-31 1-162-284-31	CERAMIC	150PF 150PF	10% 10% 10%	50V (G) 50V (G)
		< SWITCH >					C113	1-162-284-31		150PF	10%	50V (G)
S501	1-570-272-11	SWITCH, PUSH (1	KEY) (SPEAKE	RS ON/	OFF)	C114 C115 C116	1-162-284-31 1-162-284-31 1-162-284-31	CERAMIC	150PF 150PF 150PF	10% 10% 10%	50V (G) 50V (G) 50V (G)
******	*******	******	*****	*****	*****	*****	C117	1-162-284-31		150PF	10%	50V (G)
*	1-652-505-11	KEY BOARD *******					C118 C119 C120	1-162-284-31 1-162-284-31 1-162-284-31	CERAMIC	150PF 150PF 150PF	10% 10% 10%	50V (G) 50V (G) 50V (G)
		< CONNECTOR >						1-162-284-31 1-126-022-11	CERAMIC	150PF 47uF	10% 10% 20%	50V (G) 50V (G)
CN803	1-562-087-00	SOCKET, CONNECT	OR 4P				C128	1-136-153-00		0. 01uF	5%	50V
		< SWITCH >					C129 C150	1-162-284-31 1-162-284-31	CERAMIC CERAMIC	150PF 150PF	10% 10%	50V (G) 50V (G)
S802 S804 S805	1-554-303-21	SWITCH, TACTILE SWITCH, TACTILE SWITCH, TACTILE	(VIDE	O SELE			C151 C152	1-110-335-11 1-126-059-11		100PF 10uF	5% 20%	50V 50V
S807 S808	1-554-303-21	SWITCH, TACTILE SWITCH, TACTILE	(SURF	ROUND N	ODE)		C153 C154 C155	1-162-282-31 1-126-022-11 1-130-480-00	ELECT	100PF 47uF 0. 0056uF	10% 20% 5%	50V 16V 50V
S809 S810 S811	1-554-303-21	SWITCH, TACTILE SWITCH, TACTILE SWITCH, TACTILE	(SOUF	CE DIF			C156 C157	1-104-842-91 1-126-043-11	MYLAR	0. 0016uF 0. 47uF	5% 20%	50V 50V
******		**************			*****	******	C158 C159 C160	1-126-022-11 1-162-284-31 1-162-284-31	CERAMIC	47uF 150PF 150PF	20% 10% 10%	16V 50V (G) 50V (G)

MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description	Remark
C161	1-162-284-31	CERAMIC	150PF	10%	50V (G)	CN103	1-691-765-31	PLUG (MICRO CONNECTOR) 3P	
C162	1-162-284-31	CERAMIC	150PF	10%	50V (G)	* CN551	1-564-243-11	PIN, CONNECTOR 6P	
C163	1-162-284-31	CERAMIC	150PF	10%	50V (G)	* CN552	1-508-696-00	CONNECTOR PIN 4P	
C164	1-162-284-31		150PF	10%	50V (G)	* CN553	1-508-696-00	CONNECTOR PIN 4P	
C165	1-162-284-31		150PF	10%	50V (G)	* CN554	1-508-696-00	CONNECTOR PIN 4P	
C166	1-162-284-31		150PF	10%	50V (G)			CONNECTOR PIN 4P	
C167	1-162-284-31	CERAMIC	150PF	10%	50V (G)			BASE POST (14MM) 2P BASE POST (14MM) 2P	
C168	1-162-284-31	CERAMIC	150PF	10%	50V (G)	- CN001	1 000 000 00	DAGE TOST (TAMM) ZI	
C169	1-162-284-31		150PF	10%	50V (G)			BASE POST (14MM) 2P	
C170	1-162-284-31		150PF	10%	50V (G)	* CN601	1-568-844-11	SOCKET, CONNECTOR 29P	
C171 C176	1-162-284-31		150PF	10%	50V (G)			SOCKET, CONNECTOR 15P	
C176	1-126-022-11	ELECI	47uF	20%	16V			PIN, CONNECTOR 4P PLUG, CONNECTOR 2P	
C179	1-162-284-31	CERAMIC	150PF	10%	50V (G)	011004	1 004 000 11	1 Lou, COMMECTOR 21	
C508	1-126-051-11	ELECT	47uF	20%	50V	CN605	1-691-766-11	PLUG (MICRO CONNECTOR) 4P	
C509	1-136-165-00		0. 1uF	5%	50V			PIN, CONNECTOR (B3P-VH) 3P	
C558	1-126-051-11		47uF	20%	50V	* CN607	1-564-242-00	PIN, CONNECTOR 5P	
C519	1-162-284-31		150PF	10%	50V (G)			PIN, CONNECTOR (B4P-VH) 4P	
C520	1-162-284-31	CEDAMIC	150PF	1.09/	E01/ (C)	CN609	1-691-770-11	PLUG (MICRO CONNECTOR) 8P	
C520	1-136-165-00		0. 1uF	10% 5%	50V (G) 50V	CNG10	1_601_171_11	PIN, CONNECTOR 14P	
C602	1-106-220-00		0. 1uF	5%	100V			PIN, CONNECTOR 8P	
C603	1-106-220-00		0. 1uF	5%	1007			PLUG (MICRO CONNECTOR) 3P	
C604	1-107-416-11	ELECT	10000uF	20%	63V			PIN, CONNECTOR (B2P-VH) 2P	
						CN614	1-691-767-11	PLUG (MICRO CONNECTOR) 5P	
C605	1-107-416-11		10000uF	20%	63V				
C606	1-126-067-11		1000uF	20%	63V	CN615	1-691-767-11	PLUG (MICRO CONNECTOR) 5P	
C607 C608	1-126-067-11 1-136-153-00		1000uF 0. 01uF	20% 5%	63V			(DIODD)	
C609	1-136-153-00		0. 01uF	5%	50V 50V			< DIODE >	
			0.0141	070	001	D003	8-719-987-63	DIODE 1N4148M	
C610	1-136-153-00		0.01uF	5%	50V	D503	8-719-987-63		
C611	1-136-153-00		0. 01uF	5%	50V	D553	8-719-987-63	DIODE 1N4148M	
C612	1-126-015-11		3300uF	20%	16V	D601	8-719-302-38		
C613 C614	1-126-012-11 1-126-029-51		470uF 3300uF	20% 20%	16V	D602	8-719-302-38	DIODE RBV-602-01 (AEP1, G, E)	
C014	1-120-029-31	ELECT	SSUUUr	20%	25V	D603	8-719-200-02	DIODE 10E2	
C615	1-126-027-11	ELECT	1000uF	20%	25V	D604	8-719-200-02		
C616	1-126-012-11	ELECT	470uF	20%	16V	D605	8-719-911-55		
C617	1-126-012-11		470uF	20%	16V	D606	8-719-911-55		
C618	1-126-012-11		470uF	20%	16V	D607	8-719-911-55	DIODE U05G	
C619	1-126-012-11	ELECT	470uF	20%	16V	D000	0 = 10 011 ==		
C620	1-106-220-00	MYI AR	0. 1uF	5%	100V	D608 D609	8-719-911-55 8-719-911-55		
C621	1-106-220-00		0. 1uF	5%	100V 100V	D619	8-719-911-55		
C622	1-126-975-11		4700uF	20%	42V		8-719-911-55		
C623	1-126-975-11	ELECT	4700uF	20%	42V	D612	8-719-911-55		
C624	1-126-051-11	ELECT	47uF	20%	50V				
CESE	1 126 060 11	EL ECT	47D	0.00/	COM	D613	8-719-302-38		
C625 C626	1-126-062-11 1-126-059-11		47uF	20%	63V	D614	8-719-200-02		
C626 C627	1-126-059-11		10uF 47uF	20% 20%	50V		8-719-200-02		
C628	1-124-472-11		470r 470uF		63V 10V		8-719-013-82 8-719-987-63		
	11		11 VUL	2070	101	2020	0 119 201-02	DIODI IN4140M	
		< CONNECTOR >				D621	8-719-987-63	DIODE 1N4148M	
CN101	1_601 765 11	DITIC (MICDO CON	MECTOD) OF			D622	8-719-987-63	DIODE 1N4148M	
		PLUG (MICRO CON PLUG (MICRO CON							

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description				Remark
		< IC >		R019 R020	1-259-422-11 1-259-468-11		560 47K	5% 5%	1/6W 1/6W	
	8-759-184-02 8-759-805-14		_D_D	R021	1-259-442-11	CARBON	3. 9K	5%	1/6W	
IC103	8-759-805-13			<u>^</u> R022	1-212-994-00		330	5%	1/2W	
	8-759-805-14			<u>^</u> R023	1-212-849-00		4. 7	5%	1/4W	
	8-759-634-50			<u>^</u> R024 R025	1-212-849-00 1-217-611-00	RES, METAL PLAT	4.7 E 0.1	5%	1/4W 2W	F
	8-759-284-57		58B44F	2000	1 015 011 00	DDO MDMII DI IM			OW	
	8-759-231-58			R026 R027	1-217-611-00 1-259-432-11	RES, METAL PLAT	E 0.1		2W 1/6W	
	8-759-245-86 8-759-231-53			R027	1-259-456-11		1. 5K	5% 5%	1/6W	
	8-759-245-79			R037	1-259-428-11		1K	5%	1/6W	
10001	0 (00 110 10		•	R038	1-259-428-11		1K	5%	1/6W	
		< JACK >		R100	1-259-436-11	CARBON	2. 2K	5%	1/6W	(G)
J101	1-764-729-11	JACK, PIN 4P	(PHONO, TUNER)	R101	1-259-416-11		330	5%	1/6W	• •
J102	1-764-729-11	JACK, PIN 4P	(CD, TAPE REC OUT)	R102	1-259-476-11	CARBON	100K	5%	1/6W	
J103			(TAPE IN, DAT/MD REC OUT)	R103	1-259-476-11	CARBON	100K	5%	1/6W	
J104			(LD, VIDEO 3)	R104	1-259-426-11	CARBON	820	5%	1/6W	
J105	1-691-260-11	JACK, PIN 6P	(VIDEO 2, VIDEO 1 REC OUT)							
				R105	1-259-494-11		560K		1/6W	
J106			(VIDEO 1 IN, AUDIO OUT)	R106	1-259-468-11		47K	5%	1/6W	
J109	1-573-520-11	JACK, PIN 4P	(DAT/MD IN, TV)	R107	1-259-476-11		100K		1/6₩	
		/ TD NOT OTOD		R108	1-259-412-11		220	5%	1/6W	
		< TRANSISTOR	>	R109	1-259-412-11	CARBON	220	5%	1/6W	
Q008	8-729-141-89	TRANSISTOR	2SD1585-K	R110	1-259-428-11	CARBON	1K	5%	1/6W	
Q009	8-729-141-58		2SC2275A-QP	R111	1-259-444-11	CARBON	4.7K	5%	1/6₩	
Q010	8-729-141-10	TRANSISTOR	2SA985A-QP	R112	1-259-452-11		10K	5%	1/6W	
Q011	8-729-383-73		2SC2837	R113	1-259-428-11		1K	5%	1/6W	
Q012	8-729-318-63	TRANSISTOR	2SA1186	R114	1-259-428-11	CARBON	1K	5%	1/6₩	
Q013	8-729-140-82	TRANSISTOR	2SA988-PAFAEA	R115	1-259-428-11		1K	5%	1/6W	
Q508	8-729-141-89		2SD1585-K	R116	1-259-428-11		1K	5%	1/6W	
Q509	8-729-141-58		2SC2275A-QP	R117	1-259-428-11		1K	5%	1/6W	
Q510	8-729-141-10		2SA985A-QP	R118	1-259-428-11		1K	5%	1/6W	
Q511	8-729-383-73	TRANSISTOR	2SC2837	R119	1-259-428-11	CARBON	1K	5%	1/6W	
Q512	8-729-318-63		2SA1186	R120	1-259-428-11		1K	5%	1/6₩	
Q513	8-729-140-82		2SA988-PAFAEA	R121	1-259-428-11		1K	5%	1/6W	
Q558	8-729-141-89		2SD1585-K	R122	1-259-428-11		1K	5%	1/6W	
Q559	8-729-141-58		2SC2275A-QP	1	1-259-428-11		1K		1/6W	
Q560	8-729-141-10	TRANSISTOR	2SA985A-QP	R138	1-259-404-11	CARBON	100	5%	1/6W	
Q561	8-729-383-73	TRANSISTOR	2SC2837	R139	1-259-476-11	CARBON	100K		1/6W	
Q562	8-729-318-63	TRANSISTOR	2SA1186	R140	1-259-444-11	CARBON	4.7K	5%	1/6W	
Q563	8-729-140-82		2SA988-PAFAEA	R141	1-259-428-11		1K	5%	1/6₩	
Q601	8-729-140-96		2SD774-34	R150	1-259-436-11		2. 2K		1/6W	(G)
Q602	8-729-900-36	TRANSISTOR	DTC124ES	R151	1-259-416-11	CARBON	330	5%	1/6W	
Q603	8-729-900-63		DTA124ES	R152	1-259-476-11		100K		1/6W	
Q604	8-729-119-79		2SC2785-FEK	R153	1-259-476-11		100K		1/6W	
Q605	8-729-900-61	TRANSISTOR	DTA114ES	R154	1-259-426-11		820	5%	1/6W	
		, pporces		R155	1-259-494-11		560K		1/6W	
		< RESISTOR >		R156	1-259-468-11	CARBON	47K	5%	1/6W	
<u></u> \$\text{R016}	1-212-881-11	FUSIBLE	100 5% 1/4W F	R157	1-259-476-11	CARBON	100K	5%	1/6W	
<u> </u>	1-212-881-11		100 5% 1/4W F	R158	1-259-412-11		220	5%	1/6W	
R018	1-259-432-11	CARBON	1.5K 5% 1/6W	R159	1-259-412-11	CARBON	220	5%	1/6W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.

Replace only with part number specified.

MAIN

D C N	D 4 N												
Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
R160	1-259-428-11	CARBON	1K	5%	1/6₩		R608	1-259-444-11	CARBON	4.7K	5%	1/6W	
R161	1-259-444-11	CARBON	4.7K	5%	1/6W		R611	1-249-433-11		22K	5%	1/4W	
							R612	1-249-433-11	CARBON	22K	5%	1/4W	
R162	1-259-452-11	CARBON	10K	5%	1/6W		R613	1-249-433-11	CARBON	22K	5%	1/4W	
R163	1-259-428-11		1K	5%	1/6₩		R614	1-249-433-11		22K	5%	1/4W	
R164	1-259-428-11		1K	5%	1/6W								
R165	1-259-428-11		1K	5%	1/6W		R615	1-249-433-11		22K	5%	1/4W	
R166	1-259-428-11	CARBON	1K	5%	1/6W		R616	1-249-433-11	CARBON	22K	5%	1/4W	
							R617	1-249-433-11	CARBON	22K	5%	1/4W	
R167	1-259-428-11		1K	5%	1/6W		R618	1-249-433-11		22K	5%	1/4W	
R168	1-259-428-11		1K	5%	1/6₩		R619	1-249-433-11	CARBON	22K	5%	1/4W	
R169	1-259-428-11		1K	5%	1/6W								
R170	1-259-428-11		1K	5%	1/6W		R620	1-249-433-11		22K	5%	1/4W	
R171	1-259-428-11	CARBON	1K	5%	1/6W		R621	1-249-433-11		22K	5%	1/4W	
D150	1 050 100 11	OLDDON.			- /		R622	1-249-433-11		22K	5%	1/4₩	
R172	1-259-428-11		1K	5%	1/6W		R623	1-249-433-11		22K	5%	1/4W	
R173	1-259-428-11		1K	5%	1/6W		R624	1-249-433-11	CARBON	22K	5%	1/4W	
R188	1-259-404-11		100	5%	1/6W								
R189	1-259-476-11		100K	5%	1/6W		R625	1-249-433-11		22K	5%	1/4W	
R191	1-259-428-11	CARBON	1K	5%	1/6₩		R626	1-249-433-11		22K	5%	1/4W	
A DE1C	1 010 001 11	DUCIDID	100	- 0/	1 / 477	_	R627	1-249-433-11		22K	5%	1/4W	
<u>^</u> R516	1-212-881-11		100	5%	1/4W	F	R628	1-249-433-11		22K	5%	1/4W	
<u></u> R517	1-212-881-11		100	5%	1/4W	F	R629	1-249-433-11	CARBON	22K	5%	1/4W	
R518	1-259-432-11		1.5K	5%	1/6W		2000						
R519	1-259-422-11		560	5%	1/6W		R630	1-249-433-11		22K	5%	1/4W	
R520	1-259-468-11	CARBON	47K	5%	1/6W		R631	1-249-433-11		22K	5%	1/4W	
DE01	1 950 440 11	CADDON	0 017	= 0/	1 /OW		R632	1-249-433-11		22K	5%	1/4W	
R521	1-259-442-11		3.9K	5%	1/6W	_	R633	1-249-433-11		22K	5%	1/4W	
<u>↑</u> R522	1-212-994-00		330	5% 5%	1/2W	F	R634	1-249-433-11	CARBON	22K	5%	1/4W	
<u>^</u> R523 <u>^</u> R524	1-212-849-00		4.7	5%	1/4W	F	DCOF	1 040 400 11	CARRON				
	1-212-849-00		4.7	5%	1/4W	r	R635	1-249-433-11		22K	5%	1/4W	
R525	1-217-011-00	RES, METAL PLAT	E U. 1		2₩	İ	R636	1-249-433-11		22K	5%	1/4₩	
R526	1_217_611_00	RES, METAL PLAT	E 0 1		2₩		R637	1-249-433-11		22K	5%	1/4W	
R527	1-259-432-11		1.5K	E0/	∠w 1/6₩	ļ	R638	1-249-433-11		22K	5%	1/4W	
R528	1-259-456-11		1. 5K 15K	5%	1/6W		R639	1-249-433-11	CARBON	22K	5%	1/4W	
ÆR566	1-212-881-11		100	5%		F	R640	1-249-433-11	CADDON	0.017	F0/	1 / / 177	
<u>1</u> 1.R567	1-212-881-11		100	5%	1/4W		R641	1-249-433-11	-	22K	5%	1/4W	
2131001	1 212 001 11	1 001000	100	0/0	1/4!		R642	1-249-433-11		22K	5%	1/4W	
R568	1-259-432-11	CARBON	1.5K	5%	1/6W		R643	1-249-433-11		22K 22K	5%	1/4W	
R569	1-259-422-11		560	5%	1/6W	ļ	R644	1-249-433-11		22K	5% 5%	1/4W	
R570	1-259-468-11		47K	5%	1/6W	I	11044	1 249 455-11	CARDON	ZZK	∂ ⁄⁄0	1/4W	
R571	1-259-442-11		3. 9K		1/6W		R645	1-249-433-11	CARRON	22K	5%	1/4W	
 ΛR572	1-212-994-00			5%	1/2W	F	R646	1-249-433-11		22K	5%	1/4W	
				0.0	1, 5.	·	R647	1-249-433-11		22K 22K	5%	1/4W	
<u>∧</u>R573	1-212-849-00	FUSIBLE	4.7	5%	1/4W	F	R648	1-249-433-11		22K	5%	1/4W	
<u></u> 1 R574	1-212-849-00	FUSIBLE		5%	1/4W		R649	1-249-433-11		22K	5%	1/4W	
R575		RES, METAL PLATI			2W			- 4.0 .00 11	CHILDOIT	2211	070	1/4#	
R576		RES, METAL PLATI			2W		R650	1-249-433-11	CARBON	22K	5%	1/4W	
R577	1-259-432-11	CARBON	1.5K	5%	1/6W		R651	1-249-435-11		33K	5%	1/4W	
							R652	1-249-435-11		33K	5%	1/4W	
R578	1-259-456-11	CARBON	15K	5%	1/6₩	- 1	R653	1-249-435-11		33K	5%	1/4W	
<u></u> 1.00 € £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £	1-212-950-00	FUSIBLE		5%	1/2W	F	R654	1-249-441-11		100K		1/4W	
						(AEP2)			0.11.50.1	10011	070	1/ 11	
<u></u> 1.0606	1-212-950-00	FUSIBLE	4.7	5%	1/2W		R655	1-259-428-11	CARBON	1K	5%	1/6W	
						(AEP2)	R656	1-259-444-11		4. 7K		1/6W	
<u></u> 1.07 € £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £ £	1-212-986-00	FUSIBLE	150	5%	1/2W						J.•	-, 011	
						1, E, G)			< VIBRATOR >				
<u>1</u> R607	1-212-990-00	FUSIBLE	220	5%	1/2W				-				
						(AEP2)	X601	1-567-928-11	VIBLATOR, CERAM	IC (20N	Mz)		

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

MAIN P-SW PANEL

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description				Remark
		< GROUND PLATE >	•					< DIODE >				
* Y602 * Y603		PLATE, GROUND PLATE, GROUND				D801 D802 D803	8-719-987-63 8-719-987-63 8-719-987-63	DIODE 1N414 DIODE 1N414	48M			
******	******	*******	********	*****	*****	D804 D805	8-719-987-63 8-719-313-48		48M 210S-TH12			
*	1-652-506-11											
		*****				D806 D807	8-719-987-63 8-719-987-63					
		< CONNECTOR >				D808	8-719-987-63					
* CN805	1-561-651-00	SOCKET, CONNECTO	OR 7P					< FLUORESCEN	T INDICATO	OR >		
		< SWITCH >				FL801	1-517-244-11	INDICATOR TU	BE, FLUORI	ESCENT		
S801	1-554-303-21	SWITCH, TACTILE	(POWER)					< IC >				
******	*****	******	******	*****	******	1	8-759-284-56					
*	A	PANEL BOARD, COM	IDI ETE			l .	8-759-075-35 8-759-075-35					
ተ	H-45(1, 004 H	**********					8-741-100-48					
*	4-921-941-81	CUSHION (FL)						< TRANSISTOR	>			
*	4-966-143-01	HOLDER (S), FL	TUBE			0001	0 700 000 00	MD 1 NO 1 OMOD	D#010 (D0			
		< CAPACITOR >				Q801 Q802	8-729-900-36 8-729-900-63		DTC124ES DTA124ES			
						Q803	8-729-900-63		DTA124ES			
C409	1-126-059-11		10uF	20%	50V	Q804	8-729-900-36	TRANSISTOR	DTC124ES			
C412	1-130-481-00		0. 0068uF	5%	50V			/ DDGTGTGD				
C413	1-136-163-00		0. 068uF	5%	50V			< RESISTOR >				
C414 C415	1-130-477-00 1-136-159-00		0. 0033uF 0. 033uF	5% 5%	50V 50V	R416	1-249-434-11	CARRON	27K	5%	1/4W	
C413	1-150-155 00	TILM	0. 000ar	3/0	301	R417	1-249-422-11		2. 7K		1/4W	F
C459	1-126-059-11	ELECT	10uF	20%	50V	R418	1-249-426-11		5. 6K		1/4W	•
C462	1-130-481-00		0.0068uF	5%	50V	R419	1-249-414-11		560	5%	1/4W	F
C463	1-136-163-00	FILM	0.068uF	5%	50V	R466	1-249-434-11	CARBON	27K	5%	1/4W	
C464	1-130-477-00	MYLAR	0.0033uF	5%	50V							
C465	1-136-159-00	FILM	0.033uF	5%	50V	R467	1-249-422-11		2.7K		1/4W	F
						R468	1-249-426-11		5.6K		1/4W	
C801	1-164-159-11		0. 1uF		50V	R469	1-249-414-11		560	5%	1/4W	F
C802	1-164-159-11		0. 1uF	000/	50V	R801	1-249-429-11		10K	5%	1/4W	_
	1-124-598-11		22uF	20%	25V	R802	1-249-417-11	CARBON	1K	5%	1/4W	F
C804 C805	1-124-598-11		22uF	20%	25V	Doug	1 240 422 11	CADDON	99V	CO/	1 / 417	
Coup	1-164-159-11	CERAMIC	0. 1uF		50V	R803 R804	1-249-433-11 1-249-417-11		22K 1K	5% 5%	1/4W 1/4W	D.
C806	1-164-159-11	CERAMIC	0. 1uF		50V	R805	1-249-417-11		1K 1K	5%	1/4W	
C807	1-164-159-11		0. 1uF		50V	R806	1-249-417-11		1K	5%	1/4W	
C808	1-124-902-00		0. 47uF	20%	50V	R807	1-249-429-11		10K	5%	1/4W	•
C809		DOUBLE LAYERS	0. 22F	2070	5. 5V	1,001	1 243 423 11	Childon	1011	J/0	1/ 1/1	
C810	1-164-159-11		0. 221 0. 1uF		50V	R808	1-259-380-11	CARBON	10	5%	1/6W	
2010	1 101 100 11	ODITION TO	v. 1u1		301	R809	1-249-425-11		4.7K		1/4W	F
C811	1-164-159-11	CERAMIC	0. 1uF		50V	R810	1-249-425-11	-	4.7K		1/4W	
5011	_ 101 100 11					R811	1-249-411-11		330	5%	1/4W	-
		< CONNECTOR >				R812	1-259-404-11		100	5%	1/6W	
CN406	1-691-771-11	PLUG (MICRO CON	NECTOR) 9P			R813	1-249-425-11	CARBON	4.7K	5%	1/4W	F
		PIN, CONNECTOR	•			R814	1-249-425-11		4. 7K		1/4W	
		PIN, CONNECTOR				R815	1-249-425-11		4. 7K		1/4W	
		PIN, CONNECTOR				R816	1-249-425-11		4. 7K		1/4W	

PANEL SIRCS VIDEO

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description			Remark
R817	1-249-425-11	CARBON	4.7K	5%	1/4₩	F	*	A-4371-115-A	VIDEO BOARD, CO			
R820 R821 R822	1-249-417-11 1-249-425-11 1-249-417-11	CARBON	1K 4.7K 1K	5% 5% 5%	1/4W 1/4W 1/4W	F			< CAPACITOR >	ተ ዋተቀቀ		
	1 210 117 11	< VARIABLE RESIS			1/ 11	1		1-124-471-00 1-124-471-00		1000uF 1000uF	20% 20%	6. 3V 6. 3V
RV402	1-228-157-11	RES, VAR, CARBON	J 100K	/100K	(DACC)		C1003	1-124-471-00 1-124-471-00	ELECT	1000uF	20%	6. 3V
RV403	1-238-157-11	RES, VAR, CARBON RES, VAR, CARBON	√ 100K	/100K	(TREBL			1-124-471-00		1000uF 1000uF	20% 20%	6. 3V 6. 3V
		< VIBLATOR >						1-124-907-11 1-124-907-11		10uF	20%	50V
		VIBLATOR >						1-124-907-11		10uF 10uF	20% 20%	50V 50V
X801	1-567-928-11	VIBRATOR, CERAMI	C (20	MHz)				1-126-101-11		100uF	20%	16V
alle alle alle alle alle alle alle alle	****						C1010	1-126-101-11	ELECT	100uF	20%	16V
*****	*****	*******	****	*****	*****	*****	C1011	1-124-925-11	EI ECT	2. 2uF	20%	100V
*	1-652-500-11	SIRCS BOARD (E)						1-126-101-11		2. 2ur 100uF	20%	16V
		********						1-126-101-11		100uF	20%	16V
	1 050 700 11	CIRCO POIDS (IES	1 ADD	2 (2)				1-124-471-00		1000uF	20%	6. 3V
*	1-653-796-11	SIRCS BOARD (AEF						1-136-165-00 1-124-907-11		0. 1uF	5% 20°	50V
		< CAPACITOR >						1-124-907-11		10uF 10uF	20% 20%	50V 50V
								1-136-165-00		0. 1uF	5%	50V
C661	1-124-907-11	ELECT	10uF	2	0% :	50V		1-124-471-00		1000uF	20%	6. 3V
		< CONNECTOR >						1-136-165-00 1-124-471-00		0. 1uF	5%	50V
* CN661	1-691-174-11	CONNECTOR (BOARD	TO B	OARD)	4P			1-124-471-00		1000uF 0. 1uF	20% 5%	6. 3V 50V
		`		ĺ			C1110	1-124-907-11	ELECT	10uF	20%	50V
		< DIODE >						1-124-907-11		10uF	20%	50 V
D660 D661	8-719-987-63 8-719-987-63							1-124-925-11 1-126-101-11		2. 2uF 100uF	20%	100V 16V
2001	0 110 001 00	DIODE INTITION						1-126-101-11		100uF	20%	16V 16V
		< JACK >						1-126-101-11		100uF	20%	16V
1001	1 500 740 11	IACK (CONTROL O	OUT)				C1116	1-126-101-11	ELECT	100uF	20%	16V
J661 J662		JACK (CONTROL S JACK (CONTROL S							< CONNECTOR >			
		< TRANSISTOR >							CONNECTOR (BOARD		8P	
	8-729-900-80 8-729-900-61	TRANSISTOR DTA	114ES 114ES						< IC >	, , ,		
Q663	8-729-900-80		114ES					8-759-261-99				
		< RESISTOR >						8-759-805-13 8-759-805-14				
R660	1-249-429-11	CARBON	10K	5%	1/4W			8-759-261-99				
R661	1-249-421-11	CARBON	2. 2K	5%	1/4W	F		8-759-261-99				
******	******	******	*****	*****	*** ***	*****		8-759-805-13 8-759-805-14				
									< JACK >			
							J1001	1-568-751-51	JACK, PIN (2P SH	ייים אי די די די די די	(MONITE	ומר
							21001	1 000 101-01	onon, iin (21 of	HELD HIFE)	(MOINT I	JIL)

VIDEO

Ref. No.	Part No.	Description	<u>1</u>		Remark	Ref. No.	Part No.	Description				Remark
J1002	1-568-751-51	JACK, PIN		E) (VIDEO 1	IN/OUT)		1-249-413-11 1-247-807-31		470 100	5% 5%	1/4W 1/4W	F
J1003	1-568-752-51	JACK, PIN		E)			1-247-804-11		75	5%	1/4W	
J1004	1-568-752-51	JACK, PIN	(3P SHIELD TYP (TV IN, LD		ידוות פ		1-247-804-11 1-247-804-11		75 75	5% 5%	1/4W 1/4W	
J1101	1-764-676-11	CONNECTOR	(ROUND TYPE)	IN, WONIT		R1024	1-247-804-11 1-247-804-11 1-247-804-11	CARBON	75 75	5% 5% 5%	1/4W 1/4W	
J1102	1-764-676-11	CONNECTOR		OUT, VIDE) 2 IN)		1-247-895-00 1-249-422-11		470K 2.7K		1/4W 1/4W	F
J1103	1-764-676-11	CONNECTOR	(ROUND TYPE)	EO 2 OUT,		R1028	1-249-428-11 1-247-887-00	CARBON	8. 2K 220K	5%	1/4W 1/4W	
		< COIL >					1-249-439-11		68K	5%	1/4W	_
L1001	1-410-521-11	INDUCTOR	100uH			1	1-249-425-11 1-249-403-11		4.7K 68	5% 5%	1/4W 1/4W	
	1-410-521-11		100uH			1	1-249-403-11		68	5%	1/4W	
	1-410-521-11		100uH				1-249-429-11		10K	5%	1/4W	
L1004	1-410-521-11	INDUCTOR	100uH			R1104	1-249-429-11	CARBON	10K	5%	1/4₩	
		< TRANSIST	OR >				1-247-895-00		470K		1/4W	
						1	1-249-441-11		100K		1/4W	
	8-729-119-77					1	1-249-422-11		2. 7K		1/4₩	
	8-729-119-77					1	1-249-428-11		8. 2K		1/4W	
	8-729-119-77					K1109	1-249-403-11	CARBON	68	5%	1/4W	F
	8-729-119-77					D1110	1-249-403-11	CADDON	68	5%	1 / AW	p
Ø1002	8-729-119-77	TO ICIONATI	2SA1175-FEK	L		1	1-249-403-11		10K	5% 5%	1/4W 1/4W	Г
01006	8-729-119-79	TRANSISTOR	2SC2785-FEK				1-249-429-11		10K	5%	1/4W	
•	8-729-119-79						1-249-413-11		470	5%	1/4W	F
	8-729-119-77						1-249-413-11		470	5%	1/4W	
	8-729-119-77						1 5.0 110 11	CHROON	110	070	1/ 111	•
	8-729-119-77					R1115	1-249-429-11	CARBON	10K	5%	1/4W	
•						R1117	-1-247-807-31	CARBON	100	5%	1/4W	
Q1105	8-729-119-77	TRANSISTOR	2SA1175-FEK	(R1118	1-247-807-31	CARBON	100	5%	1/4W	
						R1119	1-249-403-11	CARBON	68	5%	1/4W	F
		< RESISTOR	>			R1120	1-249-403-11	CARBON	68	5%	1/4W	F
R1001	1-249-403-11	CARBON	68 5%	1/4W	F	R1121	1-249-429-11	CARBON	10K	5%	1/4W	
R1002	1-249-429-11	CARBON	10K 5%	1/4W		R1122	1-249-429-11	CARBON	10K	5%	1/4W	
R1003	1-249-413-11	CARBON	470 5%	6 1/4W	F	R1123	1-249-413-11	CARBON	470	5%	1/4W	F
	1-247-807-31		100 5%			1	1-249-413-11		470	5%	1/4W	F
R1005	1-249-403-11	CARBON	68 5%	6 1/4W	F	R1125	1-249-429-11	CARBON	10K	5%	1/4W	
R1006	1-249-429-11	CARBON	10K 5%	6 1/4W		R1127	1-247-807-31	CARBON	100	5%	1/4W	
R1007	1-249-413-11	CARBON	470 59		F	R1128	1-247-807-31	CARBON	100	5%	1/4W	
R1008	1-247-807-31	CARBON	100 59	6 1/4W		R1129	1-247-804-11	CARBON	75	5%	1/4W	
R1009	1-249-403-11	CARBON	68 59	6 1/4W	F	R1130	1-247-804-11	CARBON	75	5%	1/4W	
R1010	1-249-429-11	CARBON	10K 59	6 1/4W		R1131	1-247-804-11	CARBON	75	5%	1/4W	
R1011	1-249-413-11	CARBON	470 59	6 1/4W	F	R1132	1-247-804-11	CARBON	75	5%	1/4W	
R1012	1-247-807-31	CARBON	100 59			R1133	1-247-804-11	CARBON	75	5%	1/4W	
	1-249-403-11		68 59		F	1	1-247-804-11		75	5%	1/4W	
	1-249-429-11		10K 59		_	1	1-249-441-11		100K		1/4W	
R1015	1-249-413-11	CARBON	470 59	6 1/4W	F	R1136	1-247-887-00	CARBON	220K	5%	1/4W	
R1016	1-247-807-31	CARBON	100 59	6 1/4W		R1137	1-247-887-00	CARBON	220K	5%	1/4W	
R1017	1-249-403-11	CARBON	68 59		F	i i	1-249-441-11		100K		1/4W	
R1018	1-249-429-11	CARBON	10K 59	6 1/4W		R1139	1-249-425-11	CARBON	4.7K		1/4W	F

VIDEO 4 VOL

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description			Remark
******	******	******	********	******	C456	1-164-096-11	CERAMIC	0. 01uF		50V
*		VIDEO 4 BOARD ********			C458 C460 C461	1-126-022-11 1-162-211-31 1-110-335-11	ELECT CERAMIC	47uF 33PF 100PF	20% 5% 5%	16V 50V 50V
		< CAPACITOR >					< CONNECTOR >			
	1-162-284-31 1-162-284-31			50V (G) 50V (G)	CN402 CN403 CN404	1-691-184-11 1-691-765-11 1-691-767-11	PLUG (MICRO CO CONNECTOR (BOA PLUG (MICRO CO PLUG (MICRO CO PLUG (MICRO CO	RD TO BOARI NNECTOR) 3F NNECTOR) 5F)) 14P	
		PLUG, CONNECTOR 4P PLUG, CONNECTOR 6P			0.1100	1 001 111 11	< DIODE >	inderenty of		
		< JACK >			D401	8-719-987-63	DIODE 1N4148	M		
J1201	1-764-190-11	JACK, PIN 3P (VIDEO	4)				< IC >			
R1202 R1203 R1204	1-249-417-11 1-249-417-11 1-247-804-11 1-247-804-11 1-247-804-11	CARBON 1K CARBON 75 CARBON 75	5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W	F	IC403 IC404 IC405 IC406	8-759-051-63 8-759-634-50 8-759-824-12 8-759-051-63 8-759-962-08	IC M5218AL IC LC7536 IC TC9215P IC BA6208 IC M5218AL			
******	******	******	******	*****		8-759-634-50 8-759-634-50				
*	A-4371-682-A	VOL BOARD, COMPLETE		•			< TRANSISTOR >			
*	A-4371-768-A	VOL BOARD, COMPLETE ***********************************			Q401 Q402 Q403 Q404 Q451	8-729-141-30 8-729-141-30 8-729-141-30 8-729-900-63 8-729-141-30	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR D	SC3623A-LK SC3623A-LK SC3623A-LK TA124ES SC3623A-LK		
C401 C402 C403 C404	1-126-022-11 1-126-059-11 1-126-059-11 1-126-059-11	ELECT 10uB ELECT 10uB ELECT 10uB	20% 20% 20%	16V 50V 50V 50V	Q452	8-729-141-30	TRANSISTOR 2:	SC3623A-LK		
C405 C408 C410 C411	1-164-159-11 1-126-022-11 1-162-211-31 1-110-335-11	ELECT 47uE CERAMIC 33PE MYLAR 100F	20% 5 5%	50V 16V 50V 50V	R401 R402 R403 R404 R405	1-259-484-11 1-259-444-11 1-259-452-11 1-247-717-11 1-259-436-11	CARBON CARBON CARBON	220K 5% 4. 7K 5% 10K 5% 2. 2K 5% 2. 2K 5%	1/6W 1/6W 1/6W 1/4W 1/6W	F
C416 C417 C418	1-136-165-00 1-136-165-00 1-126-059-11	FILM 0.1u	ıF 5%	50V 50V 50V	R407 R408 R409	1-259-428-11 1-259-428-11 1-259-428-11	CARBON	1K 5% 1K 5% 1K 5%	1/6W 1/6W	
C420 C421 C422	1-110-335-11 1-126-022-11 1-126-022-11	MYLAR 100F ELECT 47uF ELECT 47uF	PF 5% 5 20% 5 20%	50V 16V 25V	R411 R412	1-259-484-11 1-259-454-11	CARBON CARBON	220K 5% 12K 5%	1/6W 1/6W 1/6W	
C423 C451 C452 C453	1-126-022-11 1-126-022-11 1-126-059-11 1-126-059-11	ELECT 47uF ELECT 10uF ELECT 10uF	20% 20% 20%	25V 16V 50V 50V	R413 R414 R415 R420 R421	1-259-484-11 1-259-430-11 1-259-452-11 1-259-484-11 1-259-430-11	CARBON CARBON CARBON	220K 5% 1. 2K 5% 10K 5% 220K 5% 1. 2K 5%	1/6W 1/6W 1/6W 1/6W	
C454 C455	1-126-059-11 1-124-903-11		20% 20%	50V 50V	R422	1-259-460-11	CARBON	22K 5%	1/6W	

VOL

PAGE 1-259-494-11 CARBON 2,2 K S	Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description		Remark
R425 1-29-448-11 CARBON 1.00 5% 1/68	R423	1-259-436-11	CARBON	2. 2K	5%	1/6W		F1.801	1-517-244-11	INDICATOR TH	RE ELIOPESCENT	
R425 1-269-348-11 (ARBON 100 5% 1/68 F											DE, TEOORESCENT	
R425 1-259-404-11 (ARBON 100 SA 1/6F							F					
R427							-					
R451 1-259-448-11 (ARBON 20K % 1/68			•	-00	070	-/ 011		1			2SD1585-K	
### Section	R427	1-259-404-11	CARBON	100	5%	1/6₩		****	0 120 212 00		2021000 N	
### 1245 1-259-448-11 (CARBON 0K 5K 1/6V CARBON 0K 0K 0K 0K 0K 0K 0K 0	R451	1-259-484-11	CARBON	220K	5%	1/6W		Q011	8-729-383-73	TRANSISTOR	2SC2837	
R453 1-259-436-11 CARRON 10K 5K 1/6F R455 1-259-436-11 CARRON 2.2K 5K 1/4F F R455 1-259-436-11 CARRON 2.2K 5K 1/4F F R457 1-259-436-11 CARRON 2.2K 5K 1/4F F R457 1-259-438-11 CARRON 1K 5K 1/6F R458 1-259-438-11 CARRON 1K 5K 1/6F R458 1-259-438-11 CARRON 1K 5K 1/6F R458 1-259-438-11 CARRON 1K 5K 1/6F R460 1-259-438-11 CARRON 1K 5K 1/6F R461 1-259-438-11 CARRON 2.2K 5K 1/6F R461 1-259-438-11 CARRON 2.2K 5K 1/6F R461 1-259-438-11 CARRON 2.2K 5K 1/6F R463 1-259-438-11 CARRON 2.2K 5K 1/6F R464 1-259-439-11 CARRON 2.2K 3K 1/6F R464 1-259-439-11 CARRON	R452	1-259-444-11	CARBON	4.7K	5%	1/6W		Q012				
R455 1-259-436-11 CARBON 2. 2K 5K 1/4W F R456 1-259-428-11 CARBON 1K 5K 1/5W R457 1-259-428-11 CARBON 1K 5K 1/5W R458 1-259-428-11 CARBON 1K 5K 1/5W R459 1-259-428-11 CARBON 1K 5K 1/5W R459 1-259-428-11 CARBON 1K 5K 1/5W R459 1-259-428-11 CARBON 1K 5K 1/5W R459 1-259-428-11 CARBON 1K 5K 1/5W R459 1-259-428-11 CARBON 1K 5K 1/5W R460 1-259-428-11 CARBON 1DOK 5K 1/5W R461 1-259-428-11 CARBON 220K 5K 1/5W R462 1-259-436-11 CARBON 12K 5K 1/5W R463 1-259-436-11 CARBON 12K 5K 1/5W R464 1-259-436-11 CARBON 1DOK 5K 1/5W R464 1-259-436-11 CARBON 1DOK 5K 1/5W R464 1-259-458-11 CARBON 1DOK 5K 1/5W R464 1-259-458-11 CARBON 1DOK 5K 1/5W R464 1-259-458-11 CARBON 1DOK 5K 1/5W R465 1-259-458-11 CARBON 1DOK 5K 1/5W R466 1-259-458-11 CARBON 1DOK 5K 1/5W R467 1-259-458-11 CARBON 1DOK 5K 1/5W R468 1-259-458-11 CARBON 1DOK 5K 1/5W R469 1-515-727-11 RELAY ***********************************	R453	1-259-452-11	CARBON	10K	5%	1/6W		Q508				
Section Sect	R454	1-247-717-11	CARBON	2. 2K	5%		F	Q511				
R455 1-249-421-11 CARBON 2.2K 5% 1/4F F R455 1-259-428-11 CARBON 1K 5% 1/6F R458 1-259-428-11 CARBON 1K 5% 1/6F G562 8-729-318-63 TARNSISTOR 250188-K 250188								Q512				
R457 1-259-428-11 CARBON 1K 5K 1/6W -259-428-12 CARBON 1K 5K 1/6W -259-428-11 CARBON 1K 5K 1/6W -259-428-11 CARBON 1K 5K 1/6W -259-428-11 CARBON 10K 5K 1/6W -259-428-11 CARBON 20K 5K 1/6W -259-438-11 CARBON 10K 5K 1/6W -259-458-11 CARBON 10K 1/6W -259-												
R457 1-259-428-11 CARBON 1K 5% 1/6W R458 1-259-428-11 CARBON 1K 5% 1/6W R459 1-259-428-11 CARBON 1K 5% 1/6W R450 1-259-428-11 CARBON 1K 5% 1/6W R461 1-259-428-11 CARBON 10K 5% 1/6W R461 1-259-436+11 CARBON 220K 5% 1/6W R462 1-259-436+11 CARBON 220K 5% 1/6W R463 1-259-436+11 CARBON 220K 5% 1/6W R464 1-259-436+11 CARBON 12K 5% 1/6W R464 1-259-436+11 CARBON 10K 5% 1/6W R464 1-259-436-11 CARBON 10K 5% 1/6W R474 1-259-436-11 CARBON 100K 5% 1/6W R474 1-259-436-11 CARBON 100K 5% 1/6W R474 1-259-476-11 CARBON 100K 5% 1/6W R474 1-259-476-11 CARBON 100K 5% 1/6W CYARIABLE RESISTOR > R7401 1-241-563-31 RES, VAR, CARBON 100KX4 (MASTER VOLUME) CRELAY > R7401 1-515-727-11 RELAY	R456	1-249-421-11	CARBON	2. 2K	5%	1/4W	F	Q558	8-729-141-89	TRANSISTOR	2SD1585-K	
R459 1-259-428-11 CARBON 1K 5% 1/6F R460 1-259-484-11 CARBON 100K 5% 1/6F R461 1-259-484-11 CARBON 220K 5% 1/6F R461 1-259-484-11 CARBON 220K 5% 1/6F R462 1-259-484-11 CARBON 220K 5% 1/6F R463 1-259-484-11 CARBON 220K 5% 1/6F R464 1-259-430-11 CARBON 12K 5% 1/6F R464 1-259-430-11 CARBON 10K 5% 1/6F R465 1-259-430-11 CARBON 10K 5% 1/6F R474 1-259-430-11 CARBON 10K 5% 1/6F R474 1-259-430-11 CARBON 10K 5% 1/6F R474 1-259-430-11 CARBON 10K 5% 1/6F R474 1-259-430-11 CARBON 10K 5% 1/6F R474 1-259-430-11 CARBON 10K 5% 1/6F R474 1-259-430-11 CARBON 10K 5% 1/6F R474 1-259-430-11 CARBON 10K 5% 1/6F R474 1-259-430-11 CARBON 10K 5% 1/6F R474 1-259-430-11 CARBON 10K 5% 1/6F R474 1-259-430-11 CARBON 10K 5% 1/6F R474 1-559-273-11 CARBON 10KX4 (MASTER VOLUME)	R457	1-259-428-11	CARBON	1K	5%	1/6W		Q561				
R450 1-259-448-11 CARBON 1K 5% 1/6W R461 1-259-4476-11 CARBON 100K 5% 1/6W R462 1-259-454-11 CARBON 12K 5% 1/6W R463 1-259-454-11 CARBON 12K 5% 1/6W R464 1-259-454-11 CARBON 12K 5% 1/6W R463 1-259-454-11 CARBON 12K 5% 1/6W R464 1-259-454-11 CARBON 10K 5% 1/6W R464 1-259-454-11 CARBON 10K 5% 1/6W R464 1-259-476-11 CARBON 10K 5% 1/6W R474 1-259-476-11 CARBON 10K 5% 1/6W R540 1-515-727-11 RELAY R7401 1-515-727-11 RELAY MISCELLARBOUS ************************************	R458	1-259-428-11	CARBON	1K	5%	1/6W		Q562				
R460	R459	1-259-428-11	CARBON	1K	5%							
R460 1-259-484-11 CARBON 100K 5% 1/6W R461 1-259-484-11 CARBON 12X 5% 1/6W R462 1-259-484-11 CARBON 12X 5% 1/6W R463 1-259-484-11 CARBON 12X 5% 1/6W R464 1-259-484-11 CARBON 10K 5% 1/6W R464 1-259-476-11 CARBON 10K 5% 1/6W R464 1-259-476-11 CARBON 10K 5% 1/6W R467 1-259-476-11 CARBON 10K 5% 1/6W R468 1-259-476-11 CARBON 10K 5% 1/6W R469 1-259-476-11 CARBON 10K 5% 1/6W R474 1-259-4576-11 CARBON 10K 5% 1/6W R474 1-259-458-11 MANUAL, INSTRICTION (CRAILSH, FRENCH, CRAILSH,							<u> </u>					
R462 1-259-454-11 CARBON 12K 5% 1/6W R463 1-259-484-11 CARBON 220K 5% 1/6W R464 1-259-430-11 CARBON 1.XK 5% 1/6W R464 1-259-450-11 CARBON 10K 5% 1/6W R474 1-259-476-11 CARBON 10K 5% 1/6W R474 1-259-476-11 CARBON 10K 5% 1/6W RV401 1-241-563-31 RES, VAR, CARBON 100KX4 (MASTER VOLUME)	R460	1-259-476-11	CARBON	100K	5%	1/6₩				,	(1.2.2)	
R462 1-259-434-11 CARBON 12K 5% 1/6W R463 1-259-430-11 CARBON 1.2K 5% 1/6W R464 1-259-430-11 CARBON 1.2K 5% 1/6W R465 1-259-452-11 CARBON 10K 5% 1/6W	R461	1-259-484-11	CARBON	220K	5%	1/6₩		/î\T1	1-426-950-11	TRANSFORMER.	POWER (E)	
R464 1-259-430-11 CARBON 1.2K 5% 1/6W R465 1-259-452-11 CARBON 10K 5% 1/6W R474 1-259-476-11 CARBON 10K 5% 1/6W	R462	1-259-454-11	CARBON	12K	5%	1/6W				,		
R464 1-259-430-11 CARBON 1.2 K 5% 1/6W R465 1-259-452-11 CARBON 10K 5% 1/6W R474 1-269-476-11 CARBON 10K 5% 1/6W	R463	1-259-484-11	CARBON	220K	5%	1/6W		******	*****	******	*******	*****
######################################	R464	1-259-430-11	CARBON	1. 2K	5%	1/6W						
R474 1-259-476-11 CARBON 100K 5% 1/6W									ACCESSORIES	8 & PACKING MA	ATERIALS	
1-467-704-11 REMOTE COMMANDER (RM-P790) 3-758-588-11 MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE) (E) 3-758-588-11 MANUAL, INSTRUCTION (ENGLISH, FRENCH, GREMAN, DUTCH) (AEP1, AEP2, G) 3-758-588-13 MANUAL, INSTRUCTION (SPANISH, FORTUGUSES, SWEDISH, ITALIAN) (AEP1, AEP2, G) 3-758-588-13 MANUAL, INSTRUCTION (SPANISH, FORTUGUSES, SWEDISH, ITALIAN) (AEP1, AEP2, G) 4-925-079-01 COVER, BATTERY (for RM-P790) 4-933-001-01 CUSHION 4-966-656-01 INDIVIDUAL CARTON 4-968-656-01 INDIVIDUAL CARTON 4-968-656-	R465	1-259-452-11	CARBON	10K	5%	1/6W			*******	******	*****	
RV401 1-241-563-31 RES, VAR, CARBON 100KX4 (MASTER VOLUME) CRNCLISH, FRENCH, SPANISH, CHINESE) (E) 3-758-588-11 MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, DUTCH) (AEP1, AEP2, G) 3-758-588-51 MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, DUTCH) (AEP1, AEP2, G) 3-758-588-51 MANUAL, INSTRUCTION (SPANISH, PORTUGUESE, SWEDISH, ITALIAN) (AEP1, AEP2) 4-925-079-01 COVER, BATTERY (for RM-P790) 4-933-001-01 CUSHION 4-966-656-01 INDIVIDUAL CARTON	R474	1-259-476-11	CARBON	100K	5%	1/6W						
RV401 1-241-563-31 RES, VAR, CARBON 100KX4 (MASTER VOLUME) CRNCLISH, FRENCH, SPANISH, CHINESE) (E)									1-467-704-11	REMOTE COMMAN	VDER (RM-P790)	
RY401 1-241-563-31 RES, VAR, CARBON 100KX4 (MASTER VOLUME) 3-758-588-41 MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, DUTCH) (AEP1, AEP2, G) 3-758-588-51 MANUAL, INSTRUCTION (SPANISH, PORTUGUESE, SWED15H, ITALIAN) (AEP1, AEP2) 4-925-079-01 COVER, BATTERY (for RM-P790) 4-933-001-01 CUSHION 4-966-656-01 INDIVIDUAL CARTON 4-966-656-01 INDIVIDUAL CART			< VARIABLE RESIS	TOR >					3-758-588-11	MANUAL, INSTE	RUCTION	
CRELAY STATES CREMAN, DUTCH) (AEP1, AEP2, G) 3-758-588-51 MANUAL, INSTRUCTION (SPANISH, PORTUGUSE, SWEDISH, ITALIAN) (AEP1, AEP2) 4-925-079-01 COVER, BATTERY (FOR RM-P790)										(ENGLISH	I, FRENCH, SPANISH, CHIN	(ESE) (E)
RELAY 3-758-588-51 MANUAL, INSTRUCTION (SPANISH, PORTUGUESE, SWEDISH, ITALIAN) (AEP1, AEP2) 4-925-079-01 COVER, BATTERY (for RM-P790)	RV401	1-241-563-31	RES, VAR, CARBON	100K	K4 (MA	STER V	OLUME)		3-758-588-41	MANUAL, INSTR	RUCTION	
Components identified by mark									(H	ENGLISH, FRENCH	I, GERMAN, DUTCH) (AEP1,	AEP2, G)
######################################			< RELAY >									
**************************************	D17.40.7								(SPANIS	SH, PORTUGUESE,	SWEDISH, ITALIAN) (AEF	'1, AEP2)
* 4-966-656-01 INDIVIDUAL CARTON ***********************************	RY401	1-515-727-11	RELAY						4-925-079-01	COVER, BATTER	RY (for RM-P790)	
* 4-966-656-01 INDIVIDUAL CARTON ***********************************	******	*****	*****	****	*****	*****			4_022_001_01	CHCHION		
######################################				***		***	*****	*			RTON	
12 1-590-882-11 WIRE, FLAT TYPE (15 CORE)			MISCELLANEOUS					•	1 000 000 01	INDIVIDUAL CA	IIIIOII	
## AFOUR POWER (E) ## AFOUR POWER (E) ## AFOUR POWER (E) ## AFOUR POWER (AEP1, AEP2, G) ## AFOUR POWER			*****					******	*******	********	*******	*****
### #################################	10	1 500 000 11	WIDD DI 10 0000	/·								
#####################################				(15 C	JRE)							
										HARDWARE	LIST	
60 1-690-782-11 WIRE (FLAT TYPE) (29 CORE) ACNJ902 1-526-794-11 OUTLET, AC (AEP1, AEP2, G) AF1 1-532-237-00 FUSE, TIME LAG (T3. 15A 250V) AF2 1-532-237-00 FUSE, TIME LAG (T3. 15A 250V) (E) AF2 1-532-286-00 FUSE (2. 5A 250V) (AEP, G) AF601 1-532-299-00 FUSE (5. 0A 250V) AF603 1-532-259-00 FUSE (1. 6A 250V) AF604 1-532-259-00 FUSE (1. 6A 250V) AF605 1-532-259-00 FUSE (1. 6A 250V) AF606 1-532-259-00 FUSE (1. 6A 250V) AF606 1-532-259-00 FUSE (1. 6A 250V) AF607 AF608 1-532-259-00 FUSE (1. 6A 250V) AF608 1-532-259-00 FUSE (1. 6A 250V) AF609 1-532-259-00 FUSE (1. 6A 250V) AF609 1-532-259-00 FUSE (1. 6A 250V) AF609 1-532-259-00 FUSE (1. 6A 250V) AF600 1-532-259-00 FUSE (1. 6A 250V) AF600 1-532-259-00 FUSE (1. 6A 250V) AF600 1-532-259-00 FUSE (1. 6A 250V) AF600 1-532-259-00 FUSE (1. 6A 250V) AF600 1-532-259-00 FUSE (1. 6A 250V) AF600 1-532-259-00 FUSE (1. 6A 250V) AF600 1-532-259-00 FUSE (1. 6A 250V) AF600 1-532-259-00 FUSE (1. 6A 250V) AF600 1-532-259-00 FUSE (1. 6A 250V) AF600 1-532-259-00 FUSE (1. 6A 250V) AF600 1-532-259-00 FUSE (1. 6A 250V) AF600 1-532-259-00 FUSE (1. 6A 250V) AF600 1-532-259-00 FUSE (1. 6A 250V) AF600 1-532-259-00 FUSE (1. 6A 250V) AF600 1-532-259-00 FUSE (1. 6A 250V) AF600 1-532-259-00 FUSE (1. 6A 250V) AF600 1-532-259-00 FUSE (1. 6A 250V) AF600 1-532-259-00 FUSE (1. 6A 250V)										*****	*****	
⚠CNJ902 1-526-794-11 OUTLET, AC (AEP1, AEP2, G) #2 7-682-547-09 SCREW +BVTT 3X6 (S) ⚠F1 1-532-237-00 FUSE, TIME LAG (T3. 15A 250V) #4 7-682-561-04 SCREW +BVTT 4X8 (S) ⚠F2 1-532-237-00 FUSE, TIME LAG (T3. 15A 250V) (E) #4 7-682-561-04 SCREW +BVTT 4X8 (S) ⚠F601 1-532-299-00 FUSE (2. 5A 250V) (AEP, G) #4 7-682-561-04 SCREW +BVTT 4X8 (S) ⚠F602 1-532-299-00 FUSE (5. 0A 250V) FUSE (1. 6A 250V) FUSE (1. 6A 250V) ⚠F604 1-532-259-00 FUSE (1. 6A 250V) FUSE (1. 6A 250V) The components identified by mark A are critical for safety. Replace only with part number	_											
★CNJ902 1-526-794-11 OUTLET, AC (AEP1, AEP2, G) #3 7-685-650-79 SCREW +BVTP 3X16 TYPE2 IT-3 ★F1 1-532-237-00 FUSE, TIME LAG (T3. 15A 250V) #4 7-682-561-04 SCREW +BVTT 4X8 (S) ★F2 1-532-237-00 FUSE, TIME LAG (T3. 15A 250V) (E) #4 7-682-561-04 SCREW +BVTT 4X8 (S) ★F601 1-532-286-00 FUSE (2. 5A 250V) (AEP, G) FUSE (5. 0A 250V) FUSE (5. 0A 250V) ★F603 1-532-259-00 FUSE (1. 6A 250V) FUSE (1. 6A 250V) FUSE (1. 6A 250V) ★F605 1-532-259-00 FUSE (1. 6A 250V) FUSE (1. 6A 250V) The components identified by mark A are critical for safety. Replace only with part number	60	1-690-782-11	WIRE (FLAT TYPE)	(29 C)RE)							
★F1 1-532-237-00 FUSE, TIME LAG (T3. 15A 250V) #4 7-682-561-04 SCREW +BVTT 4X8 (S) ★F2 1-532-237-00 FUSE, TIME LAG (T3. 15A 250V) (E) #4 7-682-561-04 SCREW +BVTT 4X8 (S) ★F601 1-532-286-00 FUSE (2. 5A 250V) (AEP, G) #4 7-682-561-04 SCREW +BVTT 4X8 (S) ★F602 1-532-299-00 FUSE (5. 0A 250V) #4 7-682-561-04 SCREW +BVTT 4X8 (S) ★F603 1-532-299-00 FUSE (5. 0A 250V) #4 7-682-561-04 SCREW +BVTT 4X8 (S) ★F603 1-532-299-00 FUSE (5. 0A 250V) #4 7-682-561-04 SCREW +BVTT 4X8 (S) ★F604 1-532-299-00 FUSE (1. 6A 250V) #4 7-682-561-04 SCREW +BVTT 4X8 (S) ★F605 1-532-299-00 FUSE (1. 6A 250V) #4 7-682-561-04 SCREW +BVTT 4X8 (S) ★F600 1-532-299-00 FUSE (1. 6A 250V) #4 7-682-561-04 SCREW +BVTT 4X8 (S) ★F601 1-532-299-00 FUSE (1. 6A 250V) #4 7-682-561-04 SCREW +BVTT 4X8 (S) ★F602 1-532-299-00 FUSE (1. 6A 250V) #4 7-682-561-04 SCREW +BVTT 4X8 (S) ★F603 1-532-299-00 FUSE (1. 6A 250V) #4 7-682-561-04 SCREW +BVTT 4X8 (S) ★F603 1-532-299-00 FUSE (1. 6A 250V) #4 7-682-561-04 SCREW +BVTT 4X8 (S) ★F60	& CN IOOO	1 500 504 11	OUT DE 10 (1PP)	1000	a \							
★F2 1-532-286-00 FUSE (2.5A 250V) (AEP, G) ★F601 1-532-299-00 FUSE (5.0A 250V) ★F602 1-532-259-00 FUSE (5.0A 250V) ★F603 1-532-259-00 FUSE (1.6A 250V) ★F604 1-532-259-00 FUSE (1.6A 250V) ★F605 1-532-259-00 FUSE (1.6A 250V) ★F606 1-532-259-00 FUSE (1.6A 250V) ★F606 1-532-259-00 FUSE (1.6A 250V)	_							#4	7-682-561-04	SCREW +BVTT 4	X8 (S)	
★F601 1-532-299-00 FUSE (5. 0A 250V) ★F602 1-532-299-00 FUSE (5. 0A 250V) ★F603 1-532-259-00 FUSE (1. 6A 250V) ★F604 1-532-259-00 FUSE (1. 6A 250V) ★F605 1-532-259-00 FUSE (1. 6A 250V) ★F606 1-532-259-00 FUSE (1. 6A 250V) ★P606 1-532-259-00 FUSE (1. 6A 250V)) (E)						
⚠F602 1-532-299-00 FUSE (5. 0A 250V) ⚠F603 1-532-259-00 FUSE (1. 6A 250V) ⚠F604 1-532-259-00 FUSE (1. 6A 250V) ⚠F605 1-532-259-00 FUSE (1. 6A 250V) ⚠F606 1-532-259-00 FUSE (1. 6A 250V) ⚠F607 The components identified by mark ♠ or dotted line with mark ♠ are critical for safety. Replace only with part number				(AEP, (i)							
	<u>√1</u> /1001	1-532-299-00	FUSE (5. UA 25UV)									
	ÆF602	1-532-299-00	FUSE (5 NA 25NV)									
	_		,									
↑F605 1-532-259-00 FUSE (1.6A 250V) ↑F606 1-532-259-00 FUSE (1.6A 250V) The components identified by mark ↑ or dotted line with mark ↑ are critical for safety. Replace only with part number ↑ Replace only with part number Replace only with part number ↑ Replace only with part number Replace on												
⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number										The	components identified b	v mark
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Sony Corporation
Consumer A&V Products Company
Home A&V Products Div.

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TA-AV790ESD

SONY. SERVICE MANUAL

AEP Model E Model

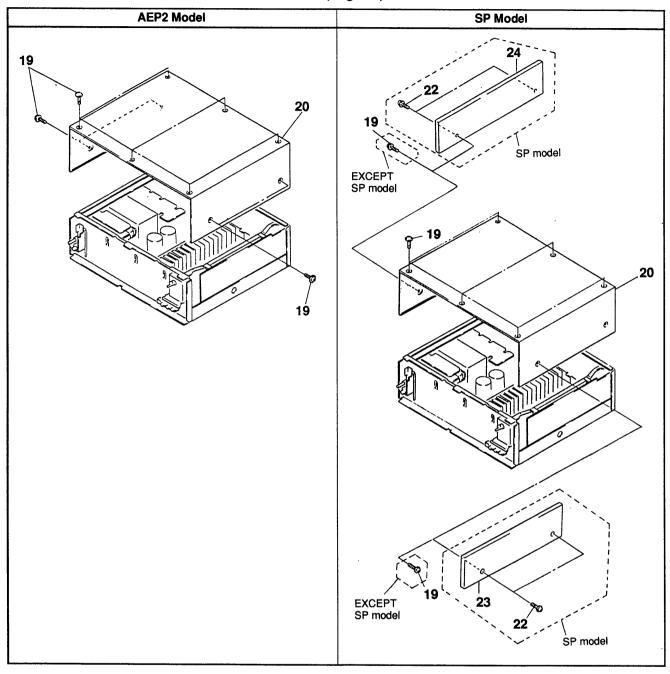
SUPPLEMENT-1

File this Supplement with the service manual.

Subject : Singapore (SP) Model Addition (Titanium color)

- SP Model is similar to earlier AEP2 Model.
- Refer to AEP2 Model for information not contained in this service manual.

EXPLODED VIEWS — FRONT PANEL SECTION — (Page 58)



Note:

There are two type of AEP models which are depend on

countries.

AEP2: Model for Scandinavian countries, Switzerland, Spain

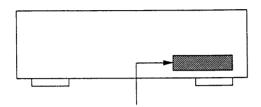
and Portugal.

AEP1 : Model for other European countries.

: CHANGED PORTION

MODEL IDENTIFICATION

- BACK PANEL -



TA-AV790ESD:

4-966-126-2 : AEP1 model

4-966-126-3□: AEP2, Singapore model 4-966-126-4□ : German model 4-966-126-5□ : E model

NOTE:

Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Abbreviation

SP: Singapore model.

Page	REF.No.	AEP2 Model	SP Model
58	2 3 4 9 13 15 16 17 18 19	4-966-127-21 PANEL (G), FRONT X-3365-387-1 KNOB (BAL) ASSY X-4942-798-1 KNOB (K53) ASSY 4-966-142-01 BUTTON (R1) X-4944-860-1 BUTTON (BASE) ASSY 4-966-139-01 BUTTON (F) (VIDEO) 4-966-139-11 BUTTON (F) (MIX) 4-966-139-21 BUTTON (F) (AUDIO) X-4944-858-1 BASE ASSY, FRONT PANEL 3-704-360-01 SCREW (CASE) (M3X8)	4-966-127-31 PANEL (G), FRONT X-4945-053-1 KNOB (BAL) ASSY X-4944-864-2 KNOB (R53) ASSY 4-966-142-11 BUTTON (R1) X-4944-861-1 BUTTON (BASE) ASSY 4-966-139-31 BUTTON (F) (VIDEO) 4-966-139-41 BUTTON (F) (MIX) 4-966-139-51 BUTTON (F) (AUDIO) X-4944-859-1 BASE ASSY, FRONT PANEL
	20 22 23 24	4-966-116-01 CASE	4-966-116-21 CASE 4-933-446-01 SCREW (SIDE PANEL) X-4945-088-1 PANEL (R) ASSY, SIDE X-4945-087-1 PANEL (L) ASSY, SIDE
59	64	4-966-140-01 BUTTON (A)	4-966-140-11 BUTTON(A)
61	157	X-4941-617-1 FOOT (58175) ASSY	X-4942-009-1 FOOT (58175) ASSY
78		3-758-588-41 MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, DUTCH) 4-966-656-01 INDIVIDUAL CARTON	3-758-588-11 MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE) 4-973-410-01 INDIVIDUAL CARTON

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